Attorney Docket No. P71354US0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of SEBILLE et al.

Application No. 10/588,265 Art Unit 1625

Filed August 31, 2006 Examiner Bernard Dentz

For BENZOPYRAN DERIVATIVES, METHOD OF PRODUCTION AND USE THEREOF

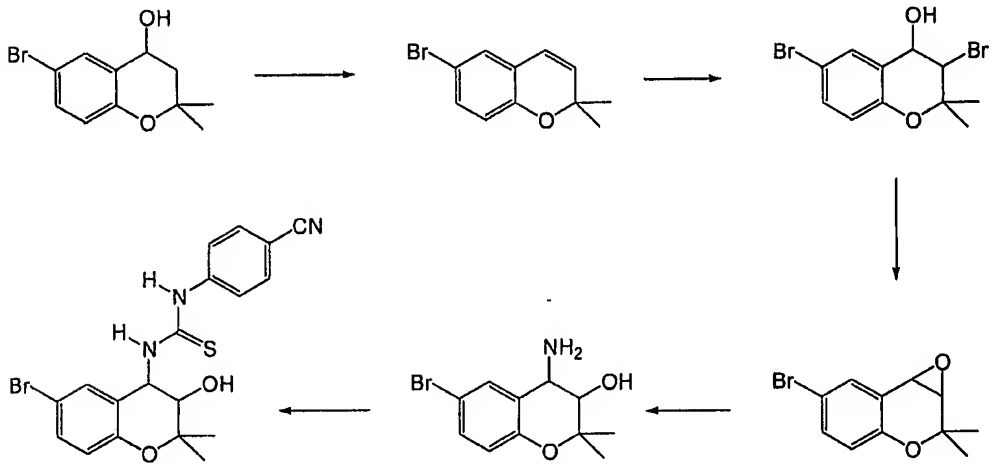
DECLARATION UNDER 37 CFR 1.132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

The undersigned Bernard Pirotte and Philippe Lebrun do hereby declare and state:

1. I, Bernard Pirotte, am a citizen of Belgium currently residing in Oupeye, Belgium.
2. I, Philippe Lebrun, am a citizen of Belgium currently residing in Brussels, Belgium.
3. I, Bernard Pirotte, am currently an employee, having the title of Professor, of the Université de Liege, Belgium, an assignee of the subject patent application.
4. I, Philippe Lebrun, am currently an employee, having the title of Professor, of the Université Libre de Bruxelles, Belgium, an assignee of the subject patent application.
5. We are familiar with the rejection of present claims 1-16 under 35 USC 102(b) for allegedly being anticipated by US Pat. No. 5,276,168 (Atwal) in the Office Action mailed February 26, 2008, and submit the instant declaration to address the rejection.
6. Under our direction and control a 3-hydroxy-substituted benzopyran derivative ("Compound B") and its corresponding 3-hydrogeno-substituted benzopyran derivative ("Compound A") were synthesized and the effects of each on insulin secretion from rat pancreatic islets recorded, as follows:

Synthesis of 3S,4R/3R,4S-6-bromo-4-(4-cyanophenylaminothiocarbonylamino)-3,4-dihydro-2,2-dimethyl-2*H*-1-benzpoyran-3-ol



6-Bromo-2,2-dimethyl-2*H*-1-benzopyran

R/S-6-bromo-3,4-dihydro-2*H*-1-benzopyran-4-ol (7 g, 0.0273 mol) (obtained as described by Khelili et al. *Pharm. Pharmacol. Commun.* 1999, 5, 189-193) and p-toluenesulfonic acid (0.6 g, 0.00349 mol) were dissolved in toluene (100 mL) and then refluxed in a Dean-Stark apparatus during 90 minutes. After elimination of the solvent under reduced pressure, the residue was partitioned between water and ether. The organic layer was washed with a 10% aqueous solution of $NaHCO_3$, dried over magnesium sulphate, and then concentrated under reduced pressure. The resulting oil (title compound) was used in the next step without further purification.

3R,4S/3S,4R-3,6-dibromo-3,4-dihydro-2,2-dimethyl-2*H*-1-benzopyran-4-ol

6-Bromo-2,2-dimethyl-2*H*-1-benzopyran (6 g, 0.02521 mol) was dissolved in DMSO (50 mL) and water (4 mL) and supplemented with N-bromosuccinimide (6 g, 0.03371 mol). The mixture was stirred for 90 minutes at room temperature. The title compound was partitioned between water and ethyl acetate and the organic layer was

washed with water, dried over magnesium sulphate and concentrated under reduced pressure. The resulting oil (title compound) was used in the next step without further purification.

3R,4S/3S,4R-6-bromo-3,4-dihydro-2,2-dimethyl-3,4-epoxychromane

3R,4S/3S,4R-3,6-dibromo-3,4-dihydro-2,2-dimethyl-2*H*-1-benzopyran-4-ol (8 g, 0.0239 mol) was dissolved in anhydrous diethyl ether (500 mL) and supplemented with KOH (5 g, 0.2679 mol). The reaction mixture was stirred for 24 h at room temperature and then filtered. The filtrate was concentrated under reduced pressure. The resulting oil (title compound) was used in the next step without further purification.

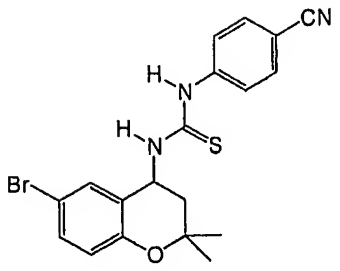
3S,4R/3R,4S-4-amino-6-bromo-3,4-dihydro-2,2-dimethyl-2*H*-1-benzpoyran-3-ol

3R,4S/3S,4R-6-bromo-3,4-dihydro-2,2-dimethyl-3,4-epoxychromane (5.4 g, 0.02126 mol) was dissolved in ethanol (50 mL) and supplemented with a 25% aqueous solution of ammonia (100 mL). The mixture was stirred for 72 h at room temperature and then concentrated under reduced pressure. The residue was partitioned between ethyl acetate and water. The organic layer was separated, dried over magnesium sulphate and concentrated under reduced pressure. The solid residue was crystallized in ethyl acetate, m.p. 131 °C.

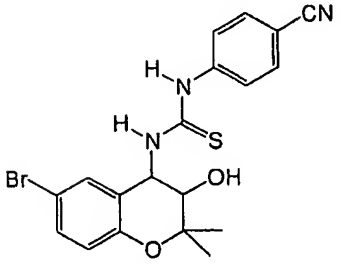
3S,4R/3R,4S-6-bromo-4-(4-cyanophenylaminothiocarbonylamino)-3,4-dihydro-2,2-dimethyl-2*H*-1-benzpoyran-3-ol

The solution of 3S,4R/3R,4S-4-amino-6-bromo-3,4-dihydro-2,2-dimethyl-2*H*-1-benzpoyran-3-ol (0.4 g, 0.00189 mol) in dichloromethane (5 mL) was supplemented with 4-cyanophenyl isothiocyanate (1.2 equiv.) and the mixture was stirred for 20 minutes at room temperature. The title compound which precipitated was collected by filtration, washed with petroleum ether 40-60°C and dried, m.p. 126-130°C.

Effects of the benzopyran derivatives on insulin secretion from rat pancreatic islets



Compound A



Compound B

The residual insulin secretion (%) was measured on rat pancreatic islets for the two compounds at 1 μM and provided the following results (mean ± s.e.m. (n)) :

Compound A (example 33: R/S-6-bromo-4-(4-cyanophenylaminothiocarbonylamino)-3,4-dihydro-2,2-dimethyl-2*H*-1-benzpoyran): 57.48 ± 3.00 % (29)

Compound B (3S,4R/3R,4S-6-bromo-4-(4-cyanophenylaminothiocarbonylamino)-3,4-dihydro-2,2-dimethyl-2*H*-1-benzpoyran-3-ol): 94.68 ± 4.84 % (24)

7. As observed, at 1 μM, Compound A provoked a 40% inhibition of the insulin release while Compound B was inactive. Thus, the absence of an OH group at the 3-position surprisingly and unexpectedly results in an improvement of activity on the pancreatic tissue.

8. Comparing the residual insulin secretion for both Compound A and Compound B, Compound B was surprisingly and unexpectedly inactive. The absence of the OH group at the 3-position, therefore, surprisingly and unexpectedly results in an improvement of

activity on the pancreatic tissue. This pancreatic activity is totally different from the cardio-vascular, antiischemic, and antiarrythmic activities disclosed in Atwal.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Further declarants sayeth naught

July 28 2008
Date

Bernard Pirotte

July 28 2008
Date

Philippe Lebrun

P71354US0 R132 lebrun&pirotte.doc

Bernard Pirotte
Curriculum Vitae

Professional address
Laboratoire de Chimie Pharmaceutique, Université de Liège, 1, Avenue de l'hôpital, C.H.U. - Tour 4 - niveau +5, B-4000 Liège, BELGIUM; Tel: + 32 4 366 43 65; Fax: + 32 4 366 43 62, e-mail: B.Pirotte@ulg.ac.be

Private address
5, rue Tollet, B-4680 Oupeye, BELGIUM; Tel: + 32 4 264 04 46

Personal information
Date of birth: 10 January 1959
Civil status: Married, 3 children
Citizenship: Belgian

Education
- Pharmacist, University of Liège, June 26, 1981
- Doctor's degree: Ph.D. in Pharmaceutical Sciences, University of Liège, February 24, 1989
- "*Agrégé de l'Enseignement Supérieur*", University of Liège, April 17, 2001

Employment
Present status: Professor at the University of Liège

Teaching
- Teaching in Medicinal Chemistry, third year Pharmaceutical Sciences Course, University of Liège
- Teaching in Medicinal Chemistry, Masters in Chemical Sciences, University of Liège
- Post-Graduate Teaching in Medicinal Chemistry, University of Liège
- Invited Professor at the University of Lille, France, "*Mastère en Drug Design*".

Professional affiliations
Member of several Societies: *Société Belge des Sciences Pharmaceutiques, Société Royale de Chimie, Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, Société de Chimie Thérapeutique.*
Executive member of the *Bureau de la Division de Chimie Thérapeutique de la Société Royale de Chimie*, affiliated to the European Federation for Medicinal Chemistry.

Main research fields in medicinal chemistry
- Synthesis and biological evaluation of new ATP-sensitive potassium channel openers
- Development of pyrido-, thieno- and benzothiadiazine dioxides as positive allosteric modulators of the AMPA receptors
- Development of coumarin derivatives as serine protease inhibitors and anticancer agents
- Pyridinic analogues of nimesulide as putative non steroidal anti-inflammatory drugs

Other scientific activities
Associate Editor of *Current Medicinal Chemistry*
Member of the Editorial Advisory Board of *Central Nervous System Agents in Medicinal Chemistry* and *Medicinal Chemistry Reviews – Online*
Referee of several journals in the field of medicinal chemistry and pharmacology such as *J. Med. Chem., Eur. J. Med. Chem., Bioorg. Med. Chem. Lett., Curr. Med. Chem., Brit. J. Pharmacol., Tetrahedron lett., Current Topics in Medicinal Chemistry, ChemBioChem, Talanta, ...*

Publications and patents
Author or co-author of more than 250 scientific publications
Inventor or co-inventor on 17 patents

PUBLICATIONS

- B. PIROTTE, F. JAMINET
Etude de la libération "in vitro" de la nitroglycérine à partir de formulations galéniques destinées à la voie percutanée. Partie I.
J. Pharm. Belg. 1984, 39, 1, 23-35

- B. PIROTTE, F. JAMINET
Etude de la libération "in vitro" de la nitroglycérine à partir de formulations galéniques destinées à la voie percutanée. Partie II.
J. Pharm. Belg. 1984, 39, 2, 77-87

- B. PIROTTE, F. JAMINET
Etude de la cinétique de libération "in vitro" de la nitroglycérine à partir de quelques systèmes d'administration percutanée.
J. Pharm. Belg. 1984, 39, 3, 125-135

- L. DUPONT, O. DIDEBERG, M. SBIT, B. PIROTTE, J. DELARGE
Structure de la bétaïne phénylacétylamino-5 thiazolium acétate-3 2,63 hydrate
Acta Cryst. 1989, C45, 419-421

- L. DUPONT, O. DIDEBERG, B. PIROTTE, J. DELARGE
Structure du bromure de carboxyméthyl-3 thiazolium
Acta Cryst. 1989, C45, 1926-1928

- L. DUPONT, O. DIDEBERG, B. PIROTTE, J. DELARGE
Structure de la bétaïne du carboxyméthyl-1 phénylacétylamino-4 triazolium-1,2,4
Acta Cryst. 1989, C45, 1928-1930

- B. PIROTTE
Synthèse et évaluation biologique de dérivés de l'amino-5 thiazole et de l'amino-4 triazole-1,2,4, inhibiteurs potentiels de protéases à sérine bactériennes.
Thèse de Doctorat, Février 1989, 2 volumes, Dissert. Abstr. Int., 1990, 51, 1, 109-110

- B. PIROTTE, J. DELARGE
Synthesis and biological evaluation of 5-aminothiazole and 4-amino- 1,2,4-triazole derivatives, potential inhibitors of bacterial serine enzymes
J. Pharm. Belg. 1990, 45, 1, 65

- B. PIROTTE, J. DELARGE
5-Phenylacetylaminothiazolium salts and their reactions with nucleophiles
J. Chem. Research (S), 1990, 208-209 ; J. Chem. Research (M), 1990, 1634-1661

- B. PIROTTE, B. MASEREEL, M. SCHYNTS, J. DELARGE
Les sulfamidés diurétiques : des origines aux perspectives d'avenir
Chimie Nouvelle, 1990, 8, 32, 920-924.

- B.J. MASEREEL, B. PIROTTE, M. SCHYNTS, J. DELARGE, R. LOHRMANN, R. NITSCHKE, R. SLATTER, R. GREGER
Structure-activity relationship (SAR) of new torasemide derivatives on Na-K-2Cl cotransporter in perfused rabbit thick ascending limb (cTAL) of Henle's loop.
Pharmaceutisch Weekblad, 1990, 12, 3, E7

- L. DUPONT, S. ENGLEBERT, O. DIDEBERG, B. PIROTTE, J. DELARGE
Structure du [4-phénylacétylimino-1-(1,2,4-triazolio)]acétate de sodium dihydrate
Acta Cryst. 1991, C47, 1079-1081

- B. MASEREEL, B. PIROTTE, M. SCHYNTS, P. FERRARI, L. THUNUS, J. DELARGE
New sulfonylurea torasemide derivatives as potential antihypertensive drugs
J. Pharm. Belg. 1990, 45, 6, 405

- A. FELEKIDIS, B. PIROTTE
Evaluation of the stereoselective homogeneous catalytic hydrogenation of methacycline into doxycycline using different zerovalent and monovalent rhodium catalysts
J. Pharm. Belg. 1991, 46, 2, 147

- L. DUPONT, S. ENGLEBERT, O. DIDEBERG, B. PIROTTE, J. DELARGE
Structure de l'acide (tert-butylamino-4 oxo-5 triazol-1,2,4 yle-1)acétique
Acta Cryst. 1991, C47, 1557-1559

- E. LOHRMANN, R.B. NITSCHKE, R. NITSCHKE, I. BURHOFF, B. MASEREEL, B. PIROTTE, E. SCHLATTER, J. DELARGE, H.J. LANG, H.C. ENGLERT, M. SALOMONSSON, A.E.G. PERSSON, O. EIDELMAN, Z.I. CABANTCHIK R. GREGER, The mode of action of diuretics
Proc. XIth Int. Congr. Nephrol. Tokyo, in Nephrology, ed. Michinobu Hatano, vol.II, p. 1072-1081, Springer-Verlag, Tokyo, 1991.

- B. PIROTTE, J. DELARGE, J. COYETTE, J-M. FRERE
Antibacterial activity of 5-acylaminothiazole derivatives, synthetic drugs related to □-lactam antibiotics
J. Antibiotics, 1991, 44, 8, 844-853

- L. DUPONT, S. ENGLEBERT, O. DIDEBERG, B. PIROTTE, J. DELARGE
Structure de la bétaïne du carboxyméthyl-1 méthylamino-4 triazolium-1,2,4
Acta Cryst. 1991, C47, 1756-1758

- N. BOGGETTO, A.C. VILAIN, B. PIROTTE, B. MASEREEL, I. VERGELY, L. DUPONT, J. DELARGE, M. REBOUD-RAVAUX

4-Amino-4*H*-1,2,4-triazole and 5-aminothiazole derivatives structurally related to □-lactam antibiotics as potential inhibitors of serine proteases
Arch. Pharmazie, 1991, 324, 9, 658

- B. MASEREEL, L. DUPONT, E. LOHRMANN, M. SCHYNTS, B. PIROTTE, R. GREGER, J. DELARGE
Loop diuretics : SAR, molecular interactions and target topography
Arch. Pharmazie, 1991, 324, 9, 650

- B. PIROTTE, A.-C. VILAIN, I. VERGELY, N. BOGGETTO, B. MASEREEL, L. DUPONT, J. DELARGE, M. REBOUD RAVAUX
Inhibiteurs potentiels de proteases à sérine apparentés aux antibiotiques □-lactamiques
Regard sur la Biochimie, 1991, 6, 91, VII-12

- L. DUPONT, O. DIDEBERG, B. MASEREEL, J. DELARGE, M. SCHYNTS, B. PIROTTE
Structures du cyclohexyl-1[(cycloheptylamino-4 pyridyl-3)sulfonyl]-3 urée et de l'hydrogé-nonitrate du cyclohexyl-1[(cyclooctylamino-4 pyridyl-3)sulfonyl]-3 urée
Acta Cryst. 1991, C47, 2152-2156

- B. PIROTTE, G. DIVE, J. DELARGE, B. MASEREEL, L. DUPONT, L. THUNUS, M. SCHYNTS, J. COYETTE; J.-M. FRERE
Synthèse, étude théorique et évaluation biologique de dérivés du 4-amino-4*H*-1,2,4-triazole analogues des antibiotiques b-lactamiques
Eur. J. Med. Chem. 1992, 27, 193-205

- E. LOHRMANN, B. MASEREEL, R. NITSCHKE, B. PIROTTE, J. DELARGE, R. GREGER
Action of diuretics at the cellular level
Progress in Pharmacology and Clinical Pharmacology, Vol. 9, Ed. A.J. Reyes, Gustav-Fischer-Verlag, Stuttgart - Jena - New York, 1992, pp 23-32

- B. MASEREEL, E. LOHRMANN, M. SCHYNTS, B. PIROTTE, R. GREGER, J. DELARGE
Design, synthesis and biological activity of a series of torasemide derivatives, potent blockers of the $Na^+2Cl^-K^+$ cotransporter. Part I: in vitro study.
J. Pharm. Pharmacol., 1992, 44, 589-593

- B. MASEREEL, P. FERRARI, M. FERRANDI, B. PIROTTE, M. SCHYNTS, P. PARENTI, J. DELARGE
$Na^+,2Cl^-,K^+$ cotransport system as a marker of antihypertensive activity of new torasemide derivatives
Eur. J. Pharmacol., 1992, 219, 385-394

- B. MASEREEL, M. SCHYNTS, E. LOHRMANN, B. PIROTTE, R. GREGER, J. DELARGE
New relative K^+-sparing high celling diuretics related to torasemide
J. Pharm. Belg., 1992, 47, 5, 447

- B. PIROTTE, P. DE TULLIO, M. PARMENTIER, B. MASEREEL, M. SCHYNTS, J. DELARGE
3-Oxo-2*H*,4*H*-pyrido[2,3-e][1,2,4]-thiadiazine 1,1-dioxide, a sweetening agent of the sulfonamide family structurally related to saccharin and acesulfame
Pharmaceutisch Weekblad, 1992, 14, 4, I10

- M. SCHYNTS, N. BOGGETTO, B. MASEREEL, B. PIROTTE, S. FESQUET, I. VERGELY, J. DELARGE, M. REBOUD-RAVAUX
New dihydrocoumarine derivatives as potential mechanism-based inactivators of serine proteinases
Pharmaceutisch Weekblad, 1992, 14, 4, I11

- A.C. VILAIN, B. PIROTTE, I. VERGELY, N. BOGGETTO, B. MASEREEL, M. SCHYNTS, J. DELARGE, M. REBOUD-RAVAUX
Evaluation of the inhibitory activity on serine and aspartic proteases of 4-amino-4*H*-1,2,4-triazole and 5-aminothiazole derivatives structurally related to □-lactam antibiotics.
J. Pharm. Pharmacol., 1993, 45, 466-472

- B. MASEREEL, M. SCHYNTS, B. PIROTTE, J. DELARGE
Loop diuretics and the renal $Na^+K^+2Cl^-$ cotransport: interaction model
J. Pharm. Belg., 1993, 48, 2, 141

- B. PIROTTE, P. DE TULLIO, P. LEBRUN, M.-H. ANTOINE, B. MASEREEL, M. SCHYNTS, J. DELARGE
Improved pancreatic K-ATP channel openers belonging to the pyridothiadiazine chemical class
J. Pharm. Belg., 1993, 48, 2, 143

- B. PIROTTE, L. DUPONT, P. DE TULLIO, B. MASEREEL, M. SCHYNTS, J. DELARGE
Structural study of pinacidil, a potassium channel opener belonging to the chemical class of N-alkyl-N"-cyano-N'-pyridylguanidines
Helv. Chim. Acta, 1993, 76, 1311-1318

- B. MASEREEL, M. SCHYNTS, J.M.KRZESINSKI, B. PIROTTE, G. RORIVE, J. DELARGE
A sulfonylthiourea (BM 20) related to torasemide: a new loop diuretic with relative potassium-sparing properties
J. Pharm. Pharmacol., 1993, 45, 720-724

- B. PIROTTE, A. FELEKIDIS, M. FONTAINE, A. DEMONCEAU, A.F. NOELS, J. DELARGE, I.T. CHIZHEVSKY, T.V. ZINEVICH, I.V. PISAREVA, V.I. BREGADZE
Stereoselective hydrogenation of methacycline to doxycycline catalysed by rhodium-carborane complexes
Tetrahedron lett., 1993, 34, 9, 1471-1474

- B. PIROTTE, P. DE TULLIO, P. LEBRUN, M.-H. ANTOINE, J. FONTAINE, B. MASEREEL, M. SCHYNTS, L. DUPONT, A. HERCHUELZ, J. DELARGE
3-Alkylamino-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides as powerful inhibitors of insulin release from rat pancreatic B-cells: a new class of potassium channel openers?
J. Med. Chem., 1993, 36, 3211-3213 (Communication to the Editor)

-P. LEBRUN, B. PIROTTE, M.H. ANTOINE, P. DE TULLIO, J. DELARGE, A. HERCHUELZ
BPDZ 44: a new and potent activator of ATP-sensitive K^+ channels
Diabetologia, 1993, 36, Suppl. 1, 406

- B. PIROTTE, P. DE TULLIO, B. MASEREEL, M. SCHYNTS, J. DELARGE, L. DUPONT, L. THUNUS
4-Acylamino-4*H*-1,2,4-triazoles and related structures: new investigations of their chemical and physicochemical properties associated to their particular exocyclic amide function
Can. J. Chem., 1993, 71, 1857-1866

- B. PIROTTE, M.H. ANTOINE, P. DE TULLIO, M. HERMANN, A. HERCHUELZ, J. DELARGE, P. LEBRUN
A pyridothiadiazine (BPDZ 44) as a new and potent activator of ATP-sensitive K^+-channels
Biochem. Pharmacol., 1994, 47, 8, 1381-1386

- P. DE TULLIO, B. PIROTTE, L. DUPONT, P. LEBRUN, M.-H. ANTOINE, J. FONTAINE, B. MASEREEL, M. SCHYNTS, J. DELARGE
Synthesis of a series of 4*H*-1,2,4-pyridothiadiazine 1,1-dioxides and their evaluation as new potassium channel openers
J. Pharm. Belg., 1994, 49, 1, 85

- B. MASEREEL, M. SCHYNTS, B. PIROTTE, P. DE TULLIO, J. DELARGE
Pharmacology of a new sulfonylurea (BM 27) effective in brain edema
J. Pharm. Belg., 1994, 49, 1, 88

- M.H. ANTOINE, B. PIROTTE, M. HERMANN, P. DE TULLIO, A. HERCHUELZ, J. DELARGE, P. LEBRUN
Cationic and secretory effects of BPDZ 44 and diazoxide in rat pancreatic islets
Experientia, 1994, 50, 830-832

- L. DUPONT, B. PIROTTE, P. DE TULLIO, B. MASEREEL, M. SCHYNTS, J. DELARGE
Etude structurale comparative du pinacidil, du diazoxide et du cromakalim, ouvreurs de canaux potassiques appartenant à trois classes chimiques distinctes
J. Pharm. Belg., 1994, 49, 3, 282

- S. FESQUET, M. SCHYNTS, N. BOGGETTO, B. MASEREEL, B. PIROTTE, J. DELARGE, K.Y. JIANG, M. REBOUD-RAVAUX
A novel coumarinic inhibitor inactivates cathepsin G but not human leucocyte elastase
J. Pharm. Belg., 1994, 49, 3, 258

- B. MASEREEL, P. RENARD, B. PIROTTE, P. DE TULLIO, J. DELARGE
Synthesis and pharmacology of pyrid-3-yl sulfonylureas and thioureas as astrocytic Na^+ $2Cl^-$ K^+ cotransporter inhibitors
Eur. J. Med. Chem., 1994, 29, 527-535

- P. DE TULLIO, B. PIROTTE, L. DUPONT, B. MASEREEL, D. LAECKMANN, T. PODONA, O. DIOUF, P. LEBRUN, J. DELARGE
Synthesis ans structural studies of a new class of heterocyclic compounds: 1,2,4-pyridothiadiazine 1,1-dioxides, pyridyl analogues of 1,2,4-benzothiadiazine 1,1-dioxides
Tetrahedron, 1995, 51, 11, 3221-3234

- C. KANE, E.A. HARDING, M.-H. ANTOINE, P. LEBRUN, B. PIROTTE, R.F.L. JAMES, P.R.V. JOHNSON, K.J. LINDLEY, M. DUNNE
Activation of potassium channels in human and rodent B-cells by BPDZ-44 and BPDZ-62; mechanisms of action and effects in human neonatal nesidioblastosis
Diabetologia, 1995, 38, suppl 1, A124

- P. LEBRUN, M.-H. ANTOINE, R. OUEDRAOGO, A. HERCHUELZ, M. DUNNE, C. KANE, P. DE TULLIO, J. DELARGE, B. PIROTTE
ATP-sensitive K^+ channels and insulin release: effect of BPDZ 62
Diabetologia, 1995, 38, suppl 1, A195

- B. PIROTTE, J. FONTAINE, P. LEBRUN
Nouveaux activateurs des canaux potassiques: conception, pharmacologie et perspectives thérapeutiques
J. Pharm. Belg., 1995, 50, 2-3, 167-178

- B. PIROTTE, J. FONTAINE, P. LEBRUN
Recent advances in the chemistry of potassium channel openers
Curr. Med. Chem., 1995, 2, 573-582

- A. FELEKIDIS, M. GOBLET-STACHOW, J.F. LIEGEOIS, B. PIROTTE, J. DELARGE, A. DEMONCEAU, M. FONTAINE, A.F. NOELS, IT. CHIZHEVSKY, T.V. ZINEVICH, V.I. BREGADZE
Influence de la nature des ligands sur l'hydrogenation de la méthacycline en doxycycline et en épi-doxycycline par des complexes du Rhodium
J. Pharm. Belg., 1995, 50, 2-3, 232

- P. DE TULLIO, B. PIROTTE, B. MASEREEL, O. DIOUF, D.H. CAIGNARD, P. RENARD, J. DELARGE

Synthèse de dérivés 3-aminoaralkyl-2-aryl-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxydes et leur évaluation en tant qu'antagonistes de la cholécystokinine
J. Pharm. Belg., 1995, 50, 2-3, 244

- B. MASEREEL, M. SCHYNTS, B. PIROTTE, P. DE TULLIO, J. DELARGE
Synthesis and pharmacology of N"-(4-arylaminopyrid-3-yl)sulfonyl-N-cyano-N'-isopropyl-guanidines
J. Pharm. Belg., 1995, 50, 2-3, 250

- B. PIROTTE, P. DE TULLIO, T. PODONA, B. MASEREEL, D.H. CAIGNARD, P. RENARD, J. DELARGE
3-Arylcarboxamidométhyl-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxydes en tant qu'anta-gonistes non peptidiques de la cholécystokinine: synthèse et évaluation pharmacologique
J. Pharm. Belg., 1995, 50, 2-3, 253

- C. KANE, E.A. HARDING, B. PIROTTE, P. LEBRUN, M.J. DUNNE
Modulation and mechanism of action of BPDZ 44 on ATP-sensitive potassium channels in isolated rat insulin-secreting cells
J. Physiol. 1995, 482 P, 11P

- L. DUPONT, B. MASEREEL, P. DE TULLIO, B. PIROTTE, J. DELARGE
N^2-cyano-N^1-isopropyl-N^3-[4-(3-methylphenylamino)-3-pyridylsulfonyl]guanidine
Acta Cryst. C51, 1995, 505-507

- L. DUPONT, B. PIROTTE, B. MASEREEL, J. DELARGE, J. GECZY
Nimesulide
Acta Cryst. C51, 1995, 507-509

- B. MASEREEL, L. DUPONT, D. LAECKMANN, J.-F. LIEGEOIS, B. PIROTTE, P. DE TULLIO, J. DELARGE
Synthesis and pharmacology of pyrid-3-ylsulfonylcyanoguanidines as diuretics
Eur. J. Med. Chem. 1995, 30, 343-351

- L. DUPONT, B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE
3-Methyl-4*H*-pyrido[3,2-*e*][1,2,4]thiadiazine 1,1-dioxide
Acta Cryst. C51, 1995, 944-946

- L. DUPONT, P. DE TULLIO, B . PIROTTE, B. MASEREEL, J. DELARGE
3-Methyl-4*H*-pyrido[4,3-*e*][1,2,4]thiadiazine 1,1-dioxide monohydrate
Acta Cryst. C51, 1995, 946-948

- P. DE TULLIO, B. PIROTTE, M.-H. ANTOINE, P. LEBRUN, C. MAGGETTO, J. FONTAINE, B. MASEREEL, J. DELARGE
Pyrido- and benzothiadiazinedioxides structurally related to diazoxide: new activators of the pancreatic and vascular K_{ATP} channels
Pflüg. Arch. Eur. J. Physiol. 1995, 430, R8

- L. DUPONT, B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE
3-amino-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide monohydrate and 3-tert-butyl-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide
Acta Cryst. C51, 1995, 1385-1388

- L. DUPONT, B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE
Les activateurs de canaux potassiques: étude structurale comparative du pinacidil, du diazoxide et du cromakalim
Ann. Pharm. Franç., 1995, 53, 5, 201-208

- L. DUPONT, P. DE TULLIO, B . PIROTTE, B. MASEREEL, J. DELARGE
3-Benzamido-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide
Acta Cryst. C51, 1995, 1903-1905

- L. DUPONT, B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE
3-Methyl-4*H*-pyrido[2,3-*e*]-1,2,4-thiadiazine 1,1-dioxide
Acta Cryst. C51, 1995, 2064-2066

- J. SCUVEE-MOREAU, V. SEUTIN, B. PIROTTE, P. DE TULLIO, L. MASSOTTE, J. DELARGE, A. DRESSE
Comparative effect of various potassium channel openers on the firing rate of hippocampal and dopaminergic neurons *in vitro*
Pflüg. Arch. Eur. J. Physiol. 1995, 430, R182

- L. DUPONT, B. PIROTTE, P. DE TULLIO, O. DIOUF, B. MASEREEL, J. DELARGE
2,4,7-Trimethyl-2,3-dihydro-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazinium 1,1-dioxide iodide
Acta Cryst. C51, 1995, 2412-2414

- L. DUPONT, B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE
3,7-Dimethyl-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide zwitterion
Acta Cryst. C51, 1995, 2414-2416

- L. DUPONT, P. DE TULLIO, B. PIROTTE, B. MASEREEL, J. DELARGE
7-Methyl-3-methylthio-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazin-7-ium-4-ide 1,1-dioxide zwitterion
Acta Cryst. C51, 1995, 2416-2417

- P. DE TULLIO, B. PIROTTE, P. LEBRUN, J. FONTAINE, L. DUPONT, M.-H. ANTOINE, R. OUEDRAOGO, C. MAGGETTO, B. MASEREEL, S. KHELILI, O. DIOUF, T. PODONA, J. DELARGE
3- and 4-substituted 4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides as potassium channel openers: synthesis, pharmacological evaluation and structure-activity relationships
J. Med. Chem., 1996, 39, 937-948

-P. LEBRUN, M.-H. ANTOINE, R. OUEDRAOGO, M. DUNNE, C. KANE, M. HERMANN, A. HERCHUELZ, B. MASEREEL, J. DELARGE, P. DE TULLIO, B. PIROTTE
Activation of ATP-dependant K^+ channels and inhibition of insulin release: effect of BPDZ 62
J. Pharmacol. Exp. Ther., 1996, 277, 156-162

- W.J. MALAISSE, P. LEBRUN, B. PIROTTE, P. D. VAN POELJE, C. VINAMBRES, M.L. VILLANUEVA-PENACARRILLO, I. VALVERDE, J. GABEL, P. RORSMAN
The riddle of formycin A insulinotropic action
Biochem. Mol. Med. 1996, 57, 47-63

- L. POCHET, C. DOUCET, M. SCHYNTS, N. THIERRY, N. BOGGETTO, B. PIROTTE, K.Y. JIANG, B. MASEREEL, P. DE TULLIO, J. DELARGE, M. REBOUD-RAVAUX
Esters and amides of 6-(chloromethyl)-2-oxo-2*H*-1-benzopyran-3-carboxylic acid as inhibitors of a-chymotrypsin: significance of the 'aromatic' nature of the novel ester-type coumarin for strong inhibitory activity
J. Med. Chem. 1996, 39, 13, 2579-2585

- B. PIROTTE, P. DE TULLIO, P. LEBRUN
Recent advances in drugs acting as tissue selective potassium channel openers
Potassium Channel Modulators: ID Research Alert 1996, 1, 4, 1-4

- L. DUPONT, B. PIROTTE, P. DE TULLIO, J. DELARGE
Absolute configuration of (R)-1-phenylethyl ammonium (S)-2-(6-methoxy-2-naphthyl)-propionate
Acta Cryst. C52, 1996, 393-395

- L. DUPONT, B. PIROTTE, P. DE TULLIO, J. DELARGE
3-Isopropylamino-4-methyl-4*H*-pyrido[4,3-*e*][1,2,4]thiadiazine 1,1-dioxide
Acta Cryst. C52, 1996, 1741-1743

- B. MASEREEL, P. LEBRUN, J.M. DOGNE, P. DE TULLIO, B. PIROTTE, L. POCHET, O. DIOUF, J. DELARGE
First synthesis of 4-substituted benzenesulfonylcyanoguanidines
Tetrahedron lett. 1996, 37, 40, 7253-7254

- P. DE TULLIO, B. PIROTTE, R. OUEDRAOGO, L. DUPONT, P. LEBRUN, Z.Y. FANG, B. MASEREEL, J. FONTAINE, M.-H. ANTOINE, P. NEVEN, L. POCHET, J. DELARGE
2-, 3- and 4-substituted pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides as ATP-sensitive potassium channel openers
J. Pharm. Belg. 1996, 51, 2, 108

- S. KHELILI, B. PIROTTE, J. DELARGE
Synthesis of potential ATP-sensitive potassium channel openers bearing some structural features of benzopyrans and benzo(pyrido)thiadiazinedioxides
J. Pharm. Belg. 1996, 51, 2, 113

- B. MASEREEL, D. LAMBERT, J.M. DOGNE, P. DE TULLIO, B. PIROTTE, L. POCHET, J. DELARGE
BM 34, an anticonvulsant sulfonylthiourea with a phenitoin-like profile
J. Pharm. Belg. 1996, 51, 2, 115

- G. PIEL, B. PIROTTE, I. DELNEUVILLE, P. NEVEN, J. DELARGE, L. DELATTRE
Nimesulide-L-lysine-□- and □-cyclodextrin complexes: preparation and dissolution properties
J. Pharm. Belg. 1996, 51, 2, 117

- L. POCHET, C. DOUCET, M. SCHYNTS, N. THIERRY, N. BOGGETTO, B. PIROTTE, B. MASEREEL, P. DE TULLIO, J. DELARGE, M. REBOUD-RAVAUX
Design and synthesis of aromatic esters and amides of 6-chloromethyl-2-oxo-2*H*-1-benzopyran-3-carboxylic acid as inhibitors of □-chymotrypsin
J. Pharm. Belg. 1996, 51, 2, 117

- B. PIROTTE, S. KHELILI, P. DE TULLIO, Z.Y. FANG, R. OUEDRAOGO, M.-H. ANTOINE, J. FONTAINE, B. MASEREEL, D. DEWALQUE, J. DAMAS, L. POCHET, J. DELARGE; P. LEBRUN
3-Alkylamino-4*H*-pyrido[2,3-*e*]-1,2,4-thiadiazine 1,1-dioxides structurally related to both diazoxide and pinacidil: a new class of potassium channel openers
J. Pharm. Belg. 1996, 51, 2, 117

- B. MASEREEL, D. LAMBERT, F. BIA, O. DIOUF, J.-F. LIEGEOIS, P. DE TULLIO, B. PIROTTE, L. POCHET, S. KHELILI, J. DELARGE
Anticonvulsant properties of 4-cycloalkylamino-pyrid-3-yl sulfonylureas and -thioureas
J. Pharm. Belg. 1996, 51, 17

- C. DOUCET, L. POCHET, M. SCHYNTS, B. PIROTTE, N. THIERRY, N. BOGGETTO, B. MASEREEL, P. DE TULLIO, J. DELARGE, M. REBOUD-RAVAUX
Nouveaux dérivés de l'acide 6-chlorométhyl-2-oxo-2*H*-1-benzopyran-3-carboxylique en tant qu'inhibiteurs de protéases à sérine: étude des relations structure-activité expliquant leur sélectivité d'action
J. Pharm. Belg. 1996, 51, 18

- S. KHELILI, B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE
Nouvelles stratégies de synthèse vers des pyridothiadiazinedioxydes structuralement apparentés au diazoxide
J. Pharm. Belg. 1996, 51, 19

- O. DIOUF, B. PIROTTE, T. PODONA, P. DE TULLIO, B. MASEREEL, J. DELARGE, P. MORAIN, J. LEPAGNOL
Synthèse de nouvelles pyridothiadiazines et leur évaluation en tant que modulateurs des récepteurs glutamatergiques à l'acide a-amino-3-hydroxy-5-méthyl-4-isoxazolepropionique
J. Pharm. Belg. 1996, 51, 20

- R. OUEDRAOGO, B. PIROTTE, M.-H. ANTOINE, P. DE TULLIO, B. MASEREEL, M. DUNNE, C. KANE, P. LEBRUN
Les canaux potassiques ATP-dépendants et la sécrétion d'insuline: effets du BPDZ 62
J. Pharm. Belg. 1996, 51, 41

- G. PIEL, B. PIROTTE, I. DELNEUVILLE, P. NEVEN, G. LLABRES, J. DELARGE, L. DELATTRE
Study of the influence of both cyclodextrins and L-lysine on the aqueous solubility of nimesulide; isolation and characterization of nimesulide-L-lysine-cyclodextrin complexes
J. Pharm. Sci. 1997, 86, 4, 475-480

- P. DE TULLIO, B. PIROTTE, P. NEVEN, B. MASEREEL, D. DEWALQUE, O. DIOUF, T. PODONA, D. CAIGNARD, P. RENARD, J. DELARGE
Synthesis and biological evaluation of new 3-aralkylamino-2-aryl-2*H*-1,2,4-pyridothiadiazine 1,1-dioxides as potential CCK receptor ligands
J. Pharm. Pharmacol. 1997, 49, 463-471

- S. KHELILI, B. PIROTTE, L. DUPONT, J. DELARGE
Synthesis and design of potential ATP-sensitive potassium channel openers bearing some structural features of benzopyrans and benzo (pyrido)thiadiazinedioxides
J. Pharm. Belg. 1997, 52, 2bis, 29

- B. MASEREEL, R. OUEDRAOGO, J.-M. DOGNE, M.-H. ANTOINE, P. DE TULLIO, B. PIROTTE, L. POCHET, J. DELARGE, P. LEBRUN
Synthesis and biological evaluation of sulfonylcyanoguanidines and sulfonamidonitroethylenes as bioisosteres of hypoglycemic sulfonylureas
Eur. J. Med. Chem. 1997, 32, 453-456

- A. FELEKIDIS, M. GOBLET-STACHOW, J.F. LIEGEOIS, B. PIROTTE, J. DELARGE, A. DEMONCEAU, M. FONTAINE, A.F. NOELS, I.T. CHIZHEVSKY, T.V. ZINEVICH, V.I. BREGADZE, F.M. DOLGUSHIN, A.I. YANOVSKY, Y.T. STRUCHKOV
Ligand effects in the hydrogenation of methacycline to doxycycline and epi-doxycycline catalysed by rhodium complexes. Molecular structure of the key catalyst [*closo*-3,3-(□^{2,3}-$C_7H_7CH_2$)-3,1,2-Rh $C_2B_9H_{11}$]
J. Organomet. Chem. 1997, 536-537, 405-412

- F. FRANCINI, B. PIROTTE, J.J. GAGLIARDINO
Effect of activators and inhibitors of K^+-channels on insulin secretion in the amphibian pancreas
Arch. Physiol. Biochem. 1997, 105, 1, 66-70

- J. SCUVEE-MOREAU, V. SEUTIN, B. VRIJENS, B. PIROTTE, P. DE TULLIO, L. MASSOTTE, A. ALBERT, J. DELARGE, A. DRESSE
Effect of potassium channel openers on the firing rate of hippocampal pyramidal cells and A10 dopaminergic neurons in vitro
Arch. Physiol. Biochem. 1997, 105, 5, 1-7

- P. LEBRUN, M.-H. ANTOINE, R. OUEDRAOGO, B. PIROTTE, A. HERCHUELZ, K.E. COSGROVE, C. KANE, M.J. DUNNE
Verapamil, a phenylalkylamine Ca^{2+} channel blocker, inhibits ATP-sensitive K^+ channels in insulin-secreting cells
Diabetologia 1997, 40, 1403-1410

- B. PIROTTE, P. DE TULLIO, P. NEVEN, D. DEWALQUE, J. DELARGE
The chemistry of 3-phthalimidomethyl-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides and their use in the synthesis of potential cholecystokinin/gastrin receptor ligands
Bull. Soc. Chim. Belg. 1997, 106, 12, 781-790

- P. LEBRUN, M.-H. ANTOINE, R. OUEDRAOGO, A. HERCHUELZ, P. DE TULLIO, J. DELARGE, B. PIROTTE
Pyridothiadiazines as potent inhibitors of glucose-induced insulin release
Physiology and Pathophysiology of the Islets of Langerhans, chap. 19, pp 145-148, Advances in Experimental Medecine and Biology, vol. 426, Edited by Soria, Plenum Press, New York, 1997

- B. MASEREEL, J.-M. DOGNE, J. DAMAS, A. NUHRICH, M. VARACHE-LEMBEGE, J. FONTAINE, L. POCHET, F. SOMERS, P. DE TULLIO, B. PIROTTE, J. DELARGE
Pharmacomodulation of torasemide led to original diuretic, neuroprotective, anticonvulsant and antithrombotic drugs
J. Pharm. Belg. 1997, 52, 4, 157-158

- P. DE TULLIO, A. FELEKIDIS, B. PIROTTE, J.-F. LIEGEOIS, M. STACHOW, J. DELARGE, A. CECCATO, P. HUBERT, J. CROMMEN, J. GECZY
First preparative enantiomer resolution of pirlindole, a potent antidepressant drug
Helv. Chim. Acta 1998, 81, 539-547

- P. DE TULLIO, B. PIROTTE, F. SOMERS, S. BOVERIE, F. LACAN, J. DELARGE
Study of the ring closure reaction of *o*-aminoarylsulfonamides with 1,1'-thiocarbonyldiimidazole
Tetrahedron 1998, 54, 4935-4942

- P. DE TULLIO, A. FELEKIDIS, J.-F. LIEGEOIS, B. PIROTTE, M. STACHOW, A. CECCATO, P. HUBERT, J. CROMMEN, J. GECZY, J. DELARGE
Résolution préparative du pirlindole
J. Pharm. Belg. 1998, 53, 1, 55

- F. SOMERS, F. ROGISTER, R. OUEDRAOGO, P. LEBRUN, P. DE TULLIO, J. FONTAINE, M.-H. ANTOINE, L. POCHET, L.-M. DOGNE, B. MASEREEL, J. DELARGE, B. PIROTTE
Design, synthèse et évaluation pharmacologique de nouvelles 2-alkylamino-quinazoline-4-ones en tant du'isostères de 3-alkylamino-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxydes
J. Pharm. Belg. 1998, 53, 1, 56

- S. KHELILI, B. PIROTTE, L. DUPONT, J. DELARGE
Conception et synthèses d'activateurs potentiels de canaux potassiques sensibles à l'ATP et bioisostères du BMS 180448
J. Pharm. Belg. 1998, 53, 1, 56-57

- B. MASEREEL, R. OUEDRAOGO, J.-M. DOGNE, M.-H. ANTOINE, P. DE TULLIO, B. PIROTTE, L. POCHET, J. DELARGE, P. LEBRUN
Design, synthesis and pharmacology of sulfonylcyanoguanidines and sulfonamidonitroethylenes as bioisosteres of hypoglycemic sulfonylureas
J. Pharm. Belg. 1998, 53, 1, 57-58

- B. MASEREEL, P. DE TULLIO, J.-M. DOGNE, F. LACAN, B. PIROTTE, L. POCHET, F. SOMERS, J. DELARGE
Design of new potential hypoglycemic drugs
J. Pharm. Belg. 1998, 53, 1, 58

- B. PIROTTE, P. DE TULLIO, M. STACHOW, A. FELEKIDIS, J.-F. LIEGEOIS, A. CECCATO, P. HUBERT, J. CROMMEN, J. GECZY, J. DELARGE
Tentatives de synthèse énantiosélective des isomères R et S du pirlindole
J. Pharm. Belg. 1998, 53, 1, 60

- R. OUEDRAOGO, F. SOMERS, B. PIROTTE, P. DE TULLIO, M.-H. ANTOINE, P. LEBRUN, J. FONTAINE
Etude pharmacologique comparative de quelques 3-alkylamino-4*H*-1,2,4-benzo- et pyridothiadiazine 1,1-dioxydes, activateurs de canaux potassiques ATP-dépendants
J. Pharm. Belg. 1998, 53, 1, 61

- F. SOMERS, R. OUEDRAOGO, P. DE TULLIO, M.-H. ANTOINE, J. FONTAINE, J. DAMAS, J. DELARGE, P. LEBRUN, B. PIROTTE
New quinazolinones structurally related to diazoxide and pinacidil as potential K_{ATP} channel openers
Fundam.Clin. Pharmacol., 1998, 12, 306

- B. PIROTTE, T. PODONA, O. DIOUF, P. DE TULLIO, P. LEBRUN, L. DUPONT, F. SOMERS, J. DELARGE, P. MORAIN, P. LESTAGE, J. LEPAGNOL, M. SPEDDING
4*H*-1,2,4-Pyridothiadiazine 1,1-dioxides and 2,3-dihydro-4*H*-1,2,4-pyridothiadiazine 1,1-dioxides chemically related to diazoxide and cyclothiazide as powerful positive allosteric modulators of (R/S)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid receptors: design, synthesis, pharmacology and structure-activity relationships
J. Med. Chem. 1998, 41, 16, 2946-2959

- P. DE TULLIO, F. SOMERS, S. BOVERIE, J. DELARGE, P. LEBRUN, B. PIROTTE
3-Alkylamino-7-halogeno-4*H*-1,2,4-benzothiadiazine 1,1-dioxides as new potent K_{ATP} channels activators
Eur. J. Pharm. Sci. 1998, suppl. 1, S34

- P. DE TULLIO, A. CECCATO, J.-F. LIEGEOIS, B. PIROTTE, A. FELEKIDIS, M. STACHOW, P. HUBERT, J. CROMMEN, J. GECZY, J. DELARGE
Preparative resolution of racemic pirlindole: chromatographic methods and determination of the absolute configuration
Eur. J. Pharm. Sci. 1998, suppl. 1, S37

- B. PIROTTE, P. DE TULLIO, T. PODONA, O. DIOUF, D. DEWALQUE, P. NEVEN, B. MASEREEL, D. H. CAIGNARD, P. RENARD, J. DELARGE
Pyridothiadiazinedioxides structurally related to quinazolinones cholecystokinin/gastrin receptor ligands: synthesis and biological evaluation
Eur. J. Pharm. Sci. 1998, 7, 29-40

- L. DUPONT, B. PIROTTE, T. PODONA, O. DIOUF, J. DELARGE, P. DE TULLIO
4-Ethyl-2,3-dihydro-4*H*-pyrido[3,2-*e*]-1,2,4-thiadiazine 1,1-dioxide and 4-ethyl-2,3-dihydro-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide
Acta Cryst. 1999, C55, 461-464

- L. DUPONT, B. PIROTTE, P. DE TULLIO
7-Iodo-3-isopropylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxide
Acta Cryst. 1999, C55, 1152-1154

- P. DE TULLIO, A. CECCATO, J.-F. LIEGEOIS, B. PIROTTE, A. FELEKIDIS, M. STACHOW, P. HUBERT, J. CROMMEN, J. GECZY, J. DELARGE
Effective resolution of racemic pirlindole at the preparative scale
Chirality, 1999, 11, 261-266

- S. KHELILI, P. DE TULLIO, P. LEBRUN, M.-H. ANTOINE, R. OUEDRAOGO, L. DUPONT, J. FONTAINE, A. FELEKIDIS, G. LECLERC, J. DELARGE, B. PIROTTE
Preparation and pharmacological evaluation of the R- and S-enantiomers of 3-(2'-butylamino)-4*H*- and 3-(3'-methyl-2'-butylamino)-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide, two tissue selective ATP-sensitive potassium channel openers
Bioorg. Med. Chem. 1999, 7, 1513-1520

- P. DE TULLIO, R. OUEDRAOGO, L. DUPONT, F. SOMERS, S. BOVERIE, J.-M. DOGNE, J. DELARGE, B. PIROTTE
Synthesis and structural studies of 3-alkylamino-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides: a new class of heterocyclic compounds with therapeutical promises
Tetrahedron 1999, 55, 5419-5432

- S. KHELILI, Q.-A. NGUYEN, P. LEBRUN, J. DELARGE, B. PIROTTE
Synthesis and pharmacological evaluation of K_{ATP}-channel openers related to cromakalim: introduction of arylsulphonylurea moieties
Pharm. Pharmacol. Commun. 1999, 5, 189-193

- P. DE TULLIO, S. KHELILI, R. OUEDRAOGO, F. SOMERS, S. BOVERIE, L. DUPONT, J. FONTAINE, M.-H. ANTOINE, J. DELARGE, P. LEBRUN, B. PIROTTE
3-Alkylamino-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides as potent K_{ATP}-channel activators: structural study and influence of stereochemistry
Pharm. Pharmacol. Commun. 1999, 5, 195-198

- B. PIROTTE, P. DE TULLIO, T. PODONA, O. DIOUF, P. MORAIN, P. LESTAGE, P. LEBRUN
Pyrido- and benzothiadiazine dioxides related to diazoxide: structural requirements leading to a K_{ATP} channel activator or to an allosteric modulator of the AMPA receptors
Fundam. Clin. Pharmacol. 1999, 13, Suppl. 1, 134s

- P. LEBRUN, R. OUEDRAOGO, Q.-A. NGUYEN, M.-H. ANTOINE, M.J. DUNNE, B. PIROTTE, B. MASEREEL
In vivo et in vitro effect of new glibenclamide isosteres
Fundam. Clin. Pharmacol. 1999, 13, suppl. 1, 381s

- P. DE TULLIO, J. DELARGE, B. PIROTTE
Recent advances in the chemistry of cholecystokinin receptor ligands (agonists and antagonists)
Curr. Med. Chem. 1999, 6, 433-455

- R. OUEDRAOGO, Q.-A. NGUYEN, M.-H. ANTOINE, J. FONTAINE, F. SOMERS, P. DE TULLIO, B. PIROTTE, P. LEBRUN
Pharmacological study of original 3-alkylamino-2-methyl-2*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxides
Fundam. Clin. Pharmacol. 1999, 13, 245

- L. DUPONT, P. DE TULLIO, S. KHELILI, F. SOMERS, J. DELARGE, B. PIROTTE
7-Chloro-(R)-3-[1-(cyclohexyl)ethylamino]-4*H*-1,2,4-benzothiadiazine 1,1-dioxide and 7-chloro-(S)-3-[1-(cyclohexyl)ethylamino]-4*H*-1,2,4-benzothiadiazine 1,1-dioxide
Acta Cryst. 1999, C55, 1945-1947

- C. DOUCET, L. POCHET, N. THIERRY, B. PIROTTE, J. DELARGE, M. REBOUD-RAVAUX
6-Substituted 2-oxo-2*H*-1-benzopyran-3-carboxylic acid as a core structure for selective inhibitors of human leucocyte elastase
J. Med. Chem. 1999, 42, 4161-4171

- S. BOVERIE, Q.-A. NGUYEN, P. DE TULLIO, F. SOMERS, B. PIROTTE, P. LEBRUN
Pharmacological evaluation of 3-alkylsulfanyl-4*H*-1,2,4-benzothiadiazine 1,1-dioxides structurally related to the K_{ATP} channel opener diazoxide
Fundam. Clin. Pharmacol. 1999, 13, 605

- F. SOMERS, P. DE TULLIO, S. BOVERIE, J.-M.DOGNE, M.-H. ANTOINE, P. LEBRUN, B. PIROTTE
New 3-alkylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxides as putative K_{ATP} channel openers: design, synthesis and pharmacological evaluation
Fundam. Clin. Pharmacol. 1999, 13, 607

- P. DE TULLIO, J. DELARGE, B. PIROTTE
Therapeutic and chemical developments of cholecystokinin receptor ligands
Exp. Opin. Invest. Drugs, 2000, 9, 129-146

- F. SOMERS, P. DE TULLIO, S. BOVERIE, J.-M. DOGNE, X. DE LEVAL, M.-H. ANTOINE, P. LEBRUN, B. PIROTTE
Synthesis and biological effects of new 3-alkylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxides on insulin-secreting cells
Pharm. Pharmacol. Commun. 2000, 6, 89-95

- X. DE LEVAL, Y. HENROTIN, A. LABASSE, J.-Y. REGINSTER, P. NEVEN, J. DELARGE, F. SOMERS, B. MASEREEL, B. PIROTTE, J.-M. DOGNE
Comparison of the effects of nimesulide and nimesulide-L-lysine on PGE_2 production by COX-1 and COX-2 and on chondrocyte metabolism *in vitro*
Pharm. Pharmacol. Commun. 2000, 6, 83-87

- R. OUEDRAOGO, J. FONTAINE, M.-H. ANTOINE, B. PIROTTE, P. LEBRUN
Effects of 3-alkylamino-7-chloro-4*H*-pyrido[2,3-*e*]-1,2,4-thiadiazine 1,1-dioxides on smooth muscle contractile activity

Pharm. Pharmacol. Commun. 2000, 6, 97-100

- B. PIROTTE, R. OUEDRAOGO, P. DE TULLIO, S. KHELILI, F. SOMERS, S. BOVERIE, L. DUPONT, J. FONTAINE, J. DAMAS, P. LEBRUN
3-Alkylamino-4*H*-pyrido[2,3-*e*]-1,2,4-thiadiazine 1,1-dioxides structurally related to diazoxide and pinacidil as potassium channel openers acting on vascular smooth muscle cells: design, synthesis and pharmacological evaluation
J. Med. Chem. 2000, 43, 1456-1466

- P. LEBRUN, P. ARKHAMMAR, M.-H. ANTOINE, Q.-A. NGUYEN, J. B. HANSEN, B. PIROTTE
A potent diazoxide analogue activating ATP-sensitive K^+ channels and inhibiting insulin release
Diabetologia 2000, 43, 723-732

- L. POCHET, C. DOUCET, G. DIVE, J. WOUTERS, B. MASEREEL, M. REBOUD-RAVAUX, B. PIROTTE
Coumarinic derivatives as mechanism-based inhibitors of □-Chymotrypsin and human leucocyte elastase
Bioorg. Med. Chem. 2000, 8, 1489-1501

- X. DE LEVAL, J. DELARGE, F. SOMERS, P. DE TULLIO, Y. HENROTIN, B. PIROTTE, J.M. DOGNE
Recent advances in inducible cyclooxygenase (COX-2) inhibition
Curr. Med. Chem. 2000, 7, 1041-1062

- M.-H. ANTOINE, P. ARKHAMMAR, Q.-A. NGUYEN, J. BONDO HANSEN, B. PIROTTE, P. LEBRUN
A potent diazoxide analogue activating ATP-sensitive K^+ channels and inhibiting insulin release
Diabetologia 2000, 43, suppl 1, A125

- B. ERB, R. AKUE, B. RIGO, B. PIROTTE, D. COUTURIER
Synthesis of 2-aminoquinazoline-4(3*H*)-one derivatives as potential potassium channel openers
J. Heterocyclic Chem. 2000, 37, 253-260

- S. BOVERIE, M.-H. ANTOINE, B. BECKER, P. DE TULLIO, F. SOMERS, S. SEBILLE, P. LEBRUN, B. PIROTTE
Effect on the pancreatic endocrine system of 3-alkylamino-7-chloro-4*H*-1,2,4-benzothiadiazine 1,1-dioxides structurally related to diazoxide
Pflüg. Arch. Eur. J. Physiol. 2000, 439, R220-R221

- I. KEMPEN, L. POCHET, D. PAPAPOSTULU, N. BOGGETTO, C. DOUCET, B. MASEREEL, J.-M. FOIDART, M. REBOUD-RAVAUX, F. FRANKENNE, B. PIROTTE
Inhibition of cellular invasion by 3-chlorophenyl 6-(acetoxymethyl)-2-oxo-2*H*-1-benzopyran-3-carboxylate
Pflüg. Arch. Eur. J. Physiol. 2000, 439, R252

- X. DE LEVAL, J.M. DOGNE, J. DELARGE, B. PIROTTE, G. DEBY, M. MATHY-HARTERT, J. CHAHBOUNE, A. LABASSE, P. NEVEN, J.Y. REGINSTER, Y. HENROTIN
Comparative effects of nimesulide, nimesulide L-lysine and nimesulide L-lysine L-arginine on human articular chondrocytes *in vitro*
Mediat. Inflamm. 2000, 9, 51

- J.M. DOGNE, X. DE LEVAL, J. DELARGE, G. DEBY, M. MATHY-HARTERT, J. CHAHBOUNE, A. LABASSE, P. NEVEN, F. SOMERS, B. PIROTTE, J.Y. REGINSTER, Y. HENROTIN
Synthesis and evaluation of non-carboxylic pyridinic derivatives as cyclooxygenase inhibitors
Mediat. Inflamm. 2000, 9, 52

- X. DE LEVAL, J.-M. DOGNE, B. MASEREEL, B. PIROTTE, J.Y. REGINSTER, P. NEVEN, A. LABASSE, J. DELARGE, Y. HENROTIN
Profile of nimesulide and nimesulide-L-lysine-□-cyclodextrin on chondrocyte metabolism
Fundam. Clin. Pharmacol. 2000, 14, 167

- X. DE LEVAL, Y. HENROTIN, B. MASEREEL, B. PIROTTE, F. SOMERS, P. NEVEN, P. DEVEL, J. DELARGE, J.-M. DOGNE
Evaluation of classical NSAIDs on COX-1 and COX-2 purified enzymes and prognosis of their effects on physiological responses
Fundam. Clin. Pharmacol. 2000, 14, 167

- J.-M. DOGNE, X. DE LEVAL, P. NEVEN, S. ROLIN, B. PIROTTE, J.L. DAVID, J. DELARGE, B. MASEREEL
Characterization of antiplatelet activity of ticlopidine and acetylsalicylic acid by PFA-100
Fundam. Clin. Pharmacol. 2000, 14, 168

- I. KEMPEN, C. DOUCET, L. POCHET, F. LACAN, F. BOURDEL, A. NOEL, J.-M. FOIDART, M. REBOUD-RAVAUX, B. PIROTTE
Coumarin derivatives as putative antiinvasive agents in cancer
Fundam. Clin. Pharmacol. 2000, 14, 169

- F. SOMERS, R. OUEDRAOGO, P. DE TULLIO, M.-H. ANTOINE, S. BOVERIE, J. FONTAINE, J. DAMAS, B. PIROTTE, P. LEBRUN
Comparison between the effects of 3-aralkylamino-/3-cycloalkylalkylamino-substituted benzothiadiazine dioxides and their corresponding quinazolinone isosteres on different smooth muscle preparations
Fundam. Clin. Pharmacol. 2000, 14, 171

- S. BOVERIE, F. SOMERS, R. OUEDRAOGO, M.-H. ANTOINE, J.-M. DOGNE, X. de LEVAL, P. de TULLIO, B. PIROTTE, P. LEBRUN
7-Substituted alkylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxides as new analogues of diazoxide: effects on the insulin releasing process *in vitro*
Fundam. Clin. Pharmacol. 2000, 14, 299

- J.-M. DOGNE, X. DE LEVAL, P. NEVEN, F. SOMERS, J. DELARGE, S. ROLIN, C. MICHAUX, J. WAUTERS, B. PIROTTE, J. DAMAS, B. MASEREEL
Pharmacological evaluation of original sulfonylureas as thromboxane A_2 antagonists
Fundam. Clin. Pharmacol. 2000, 14, 300

- S. BOVERIE, M.-H. ANTOINE, P. DE TULLIO, F. SOMERS, B. BECKER, S. SEBILLE, P. LEBRUN, B. PIROTTE
Effect on insulin release of compounds structurally related to the potassium channel opener 7-chloro-3-isopropylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxide (BPDZ 73): introduction of heteroatoms on the 3-alkylamino side chain of the benzothiadiazine 1,1-dioxide ring
J. Pharm. Pharmacol. 2001, 53, 973-980

- L. DUPONT, P. DE TULLIO, S. BOVERIE, B. PIROTTE
3-Amino-4*H*-pyrido[2,3-*e*]-1,2,4-thiadiazine 1,1-dioxide
Acta Cryst. 2001, E57, o602-o603

- X. DE LEVAL, J. DELARGE, P. DEVEL, P. NEVEN, C. MICHAUX, B. MASEREEL, B. PIROTTE, J.-L. DAVID, Y. HENROTIN, J.-M. DOGNE
Evaluation of classical NSAIDs and COX-2 selective inhibitors on purified ovine enzymes and human whole blood
Prostag. Leukotr. Essent. Fatty Acids 2001, 64 (4-5), 211-216

- L. DUPONT, S. KHELILI, B. PIROTTE, B. TINANT, P. DE TULLIO
Absolute configuration of N-[(R)-3-methyl-2-butyl]-(S)-2-(6-methoxy-2-naphthyl)-propionamide
Acta Cryst. 2001, E57, o650-o651

- L. DUPONT, F. SOMERS, S. BOVERIE, B. PIROTTE, B. TINANT, P. DE TULLIO
7-Chloro-2-methyl-3-methylamino-2*H*-1,2,4-benzothiadiazine 1,1-dioxide
Acta Cryst. 2001, E57, o652-o654

- F. SOMERS, R. OUEDRAOGO, M.-H. ANTOINE, P. DE TULLIO, B. BECKER, J. FONTAINE, J. DAMAS, L. DUPONT, B. RIGO, J. DELARGE, P. LEBRUN, B. PIROTTE
Original 2-alkylamino-6-halogenoquinazolin-4(3*H*)-ones and K_{ATP} channel activity
J. Med. Chem. 2001, 44, 16, 2575-2585

- B. BECKER, M.-H. ANTOINE, Q.-A. NGUYEN, B. RIGO, K.E. COSGROVE, P.D. BARNES, M.J. DUNNE, B. PIROTTE, P. LEBRUN
Synthesis and characterisation of a quinolinonic compound activating ATP-sensitive K^+ channels in endocrine and smooth muscle tissues
Brit. J. Pharmacol. 2001, 134, 375-385

- L. DUPONT, P. DE TULLIO, B. TINANT, B. PIROTTE
(R/S)-3-(3-Methyl-2-butylamino)-4*H*-pyrido[4,3-*e*]-1,2,4-thiadiazine 1,1-dioxide mono-hydrate
Acta Cryst. 2001, E57, o1050-o1051

- C. MICHAUX, C. CHARLIER, F. JULEMONT, J.-M. DOGNE, X. DE LEVAL, B. NORBERG, B. PIROTTE, F. DURANT
N-(3-Phenoxy-4-pyridinio)methanesulfonamidate
Acta Cryst. 2002, C58, o88-o89

- J.-M. DOGNE, X. DE LEVAL, P. BENOIT, S. ROLIN, B. PIROTTE, B. MASEREEL
Therapeutic potential of thromboxane inhibitors in asthma
Expert Opin. Investig. Drugs 2002, 11 (2), 275-281

- Q.-A. NGUYEN, M.-H. ANTOINE, R. OUEDRAOGO, M. HERMANN, J. SERGOORIS, B. PIROTTE, B. MASEREEL, P. LEBRUN
In vitro and *in vivo* effects of new insulin releasing agents
Biochem. Pharmacol. 2002, 63 (3), 515-521

- X. DE LEVAL, F. JULEMONT, J. DELARGE, B. PIROTTE, J.-M. DOGNE
New trends in dual 5-LOX/COX inhibition
Curr. Med. Chem. 2002, 9, 941-962.

- B. ERB, B. RIGO, B. PIROTTE, D. COUTURIER
Synthesis of 2-amino-1,4-dihydro-4-quinolinones and diaminomethylene Meldrum's acids derivatives as potential potassium channel openers
J. Heterocyclic Chem. 2002, 39, 15-28

- J. WOUTERS, M. HUYGENS, L. POCHET, B. PIROTTE, F. DURANT, B. MASEREEL
Structural approach of the mechanism of inhibition of □-chymotrypsin by coumarins
Bioorg. Med. Chem. Letters 2002, 12, 1109-1112

- X. DE LEVAL, F. JULEMONT, J. DELARGE, V. SANNA, B. PIROTTE, J.-M. DOGNE
Advances in the field of COX-2 inhibition
Expert Opin. Ther. Patents 2002, 12, 969-989

- M. DABROWSKI, F.M. ASHCROFT, R. ASHFIELD, P. LEBRUN, B. PIROTTE, J. EGEBJERG, J.B. HANSEN, P. WAHL

The novel diazoxide analog 3-isopropylamino-7-methoxy-4*H*-1,2,4-benzothiadiazine 1,1-dioxide is a selective Kir6.2/SUR1 channel opener
Diabetes 2002, 51, 1896-1906

- P. BENOIT, X. DE LEVAL, B. PIROTTE, J.-M. DOGNE
Latest discoveries in prostaglandin receptor modulators
Expert Opin. Ther. Patents 2002, 12, 1225-1235

- K.E. COSGROVE, M.-H. ANTOINE, A.T. LEE, P.D. BARNES, P. DE TULLIO, P. CLAYTON, R. McCLOY, P. DE LONLAY, C. NIHOUL-FEKETE, J.-J. ROBERT, J.-M. SAUDUBRAY, J. RAHIER, K.J. LINDLEY, K. HUSSAIN, A. AYNSLEY-GREEN, B. PIROTTE, P. LEBRUN, M.J. DUNNE
BPDZ 154 Activates Adenosine 5'-Triphosphate-Sensitive Potassium Channels; In Vitro Studies Using Rodent Insulin-Secreting Cells and Islets Isolated from Patients with Hyperinsulinism
J. Clin. Endo. Metabol., 2002, 87, 4860-4868

- R. OUEDRAOGO, B. BECKER, S. BOVERIE, F. SOMERS, M.-H. ANTOINE, B. PIROTTE, P. LEBRUN, P. DE TULLIO
2-Alkyl-3-alkylamino-2*H*-benzo- and pyridothiadiazine 1,1-dioxides: from K^+_{ATP} channel openers to Ca^{++} channel blockers?
Biol. Chem. 2002, 383, 1759-1768

- F. JULEMONT, X. DE LEVAL, C. MICHAUX, J. DAMAS, C. CHARLIER, F. DURANT, B. PIROTTE, J.-M. DOGNE
Spectral and crystallographic study of pyridinic analogues of nimesulide : determination of the active form of methanesulfonamides as COX-2 selective inhibitors
J. Med. Chem. 2002, 45, 5182-5185

- P. DE TULLIO, R. OUEDRAOGO, B. BECKER, S. BOVERIE, F. SOMERS, M.-H. ANTOINE, B. PIROTTE, P. LEBRUN
2-N-alkylation of 3-alkylamino-substituted 2*H*-benzo- and 2*H*-pyridothiadiazine 1,1-dioxides: from K^+ATP channel openers to Ca^{++} channel blockers?
Fundam. Clin. Pharmacol. 2002, 16, 68

- S. BOVERIE, B. BECKER, F. SOMERS, Q.-A. NGUYEN, R. OUEDRAOGO, M.-H. ANTOINE, P. LEBRUN, B. PIROTTE, P. DE TULLIO
3-R/S-(hydroxyalkylamino)-4*H*-1,2,4-benzothiadiazine 1,1-dioxides as potential K^+_{ATP} channel activators: influence of stereochemistry on biological activity and tissue selectivity
Fundam. Clin. Pharmacol. 2002, 16, 69

- S. SEBILLE, B. BECKER, M.-H. ANTOINE, P. LEBRUN, B. PIROTTE
Effects on rat pancreatic B-cells and rat aorta rings of 4,6-disubstituted 2,2-dimethylchromans structurally related to the potassium channel opener cromakalim
Fundam. Clin. Pharmacol. 2002, 16, 69

- P. DE TULLIO, S. BOVERIE, D. DEWALQUE, S. SEBILLE, J. DAMAS, B. PIROTTE
Relaxant effect of K^+_{ATP} channel openers on the uterine smooth muscle: pharmacological in vitro models
Fundam. Clin. Pharmacol. 2002, 16, 245

- X. DE LEVAL, V. BENOIT, P. NEVEN, P. BENOIT, C. MICHAUX, B. MASEREEL, B. PIROTTE, J.-L. DAVID, J.-M. DOGNE
Effects of thromboxane A_2 receptor antagonists and thromboxane synthase inhibitors on osteogenic sarcoma cell-induced platelet aggregation
Fundam. Clin. Pharmacol. 2002, 16, 245

- S. SEBILLE, B. BECKER, M.-H. ANTOINE, S. BOVERIE, P. DE TULLIO, P. LEBRUN, B. PIROTTE
Pharmacological evaluation of cromakalim analogues: towards the discovery of new inhibitors of insulin secretion from rat pancreatic □-cells
Fundam. Clin. Pharmacol. 2002, 16, 246

- S. BOVERIE, B. BECKER, S. SEBILLE, M.-H. ANTOINE, B. PIROTTE, P. LEBRUN, P. DE TULLIO
Development of 4*H*-1,2,4-benzothiadiazine 1,1-dioxides as putative tocolytic agents: pharmacological evaluation on different smooth muscle preparations
Fundam. Clin. Pharmacol. 2002, 16, 246

- F. JULEMONT, X. DE LEVAL, P. NEVEN, C. MICHAUX, C. CHARLIER, B. PIROTTE, J.-M. DOGNE
Evaluation of pyridinic sulfonamides related to nimesulide as COX-2 selective inhibitors
Fundam. Clin. Pharmacol. 2002, 16, 246

- A.T. LEE, K.E. COSGROVE, P.D. BARNES, K.J. LINDLEY, A. AYNSLEY-GREEN, P. DE TULLIO, B. PIROTTE, P. LEBRUN, M.J. DUNNE
BPDZ 154 is a potent activator of ATP-sensitive potassium channels in pancreatic □-cells
Endocrine Abstracts 2002, 3, OC 16

- A.T. LEE, K.E. COSGROVE, P.D. BARNES, K.J. LINDLEY, A. AYNSLEY-GREEN, P. DE TULLIO, B. PIROTTE, P. LEBRUN, M.J. DUNNE
BPDZ 154: a novel activator of K_{ATP} channels in □-cells
Pflugers Arch. 2002, 443, S338

- K.E. COSGROVE, A.-M. GONZALEZ, A.T. LEE, P. BARNES, K. HUSSAIN, A. AYNSLEY-GREEN, K.J. LINDLEY, B. PIROTTE, P. LEBRUN, M.J. DUNNE
In vitro recovery of ATP-sensitive potassium channels in □-cells from patients with hyperinsulinism in infancy; effects of low temperature and BPDZ 154
J. Physiol. 2002, 544P, 21P

- F. JULEMONT, J.-M. DOGNE, D. LAECKMANN, B. PIROTTE, X. DE LEVAL
Recent developments in 5-lipoxygenase inhibitors
Expert Opin. Ther. Patents 2003, 13, 1-13
F.I. : 1.488

- J.-M. DOGNE, X. DE LEVAL, P. KOLH, V. SANNA, S. ROLIN, C. MICHAUX, M. MAUER, J.-L. DAVID, B. MASEREEL, B. PIROTTE
Pharmacological evaluation of the novel thromboxane modulator BM-567 (I/II). Effects of BM-567 on platelet function
Prostag. Leukotr. Essent. Fatty Acids 2003, 68, 49-54
F.I. : 2.261

- X. DE LEVAL, V. BENOIT, J. DELARGE, F. JULEMONT, B. MASEREEL, B. PIROTTE, M.-P. MERVILLE, J.-L. DAVID, J.-M. DOGNE
Pharmacological evaluation of the novel thromboxane modulator BM-567 (II/II). Effects of BM-567 on osteogenic sarcoma-cell-induced platelet aggregation
Prostag. Leukotr. Essent. Fatty Acids 2003, 68, 55-59
F.I. : 2.261

- I. KEMPEN, D. PAPAPOSTOLOU, N. THIERRY, L. POCHET, S. COUNEROTTE, B. MASEREEL, J.-M. FOIDART, M. REBOUD-RAVAUX, A. NOEL, B. PIROTTE
3-Bromophenyl 6-acetoxymethyl-2-oxo-2*H*-1-benzopyran-3-carboxylate inhibits cancer cells invasion *in vitro* and tumour growth *in vivo*
Brit. J. Cancer 2003, 88, 1111-1118
F.I. : 4.459

- P. DE TULLIO, B. BECKER, S. BOVERIE, M. DABROWSKI, P. WAHL, M.-H. ANTOINE, F. SOMERS, S. SEBILLE, R. OUEDRAOGO, , J.B. HANSEN, P. LEBRUN, B. PIROTTE
Toward tissue-selective pancreatic B-cells K_{ATP} channel openers belonging to 3-alkylamino-7-halo-4*H*-1,2,4-benzothiadiazine 1,1-dioxides
J. Med. Chem. 2003, 46, 3342-3353
F.I. : 5.115

- L. POCHET, M. DIEU, R. FREDERICK, A.-M. MURRAY, I. KEMPEN, B. PIROTTE, B. MASEREEL
Investigation of the inhibition mechanism of coumarins on chymotrypsin by mass spectrometry
Tetrahedron 2003, 59, 4557-4561
F.I. : 2.817

- L. DUPONT, F. SOMERS, P. DE TULLIO, B. PIROTTE
3-Isopropylamino-7-nitro-1,4,2-benzodithiazine 1,1-dioxide
Acta Cryst. E59, 2003, o1509-o1511
F.I. : 0.567

- J. HANSON, X. DE LEVAL, P. KOLH, C. SUPURAN, B. PIROTTE, J.-M. DOGNE
Update on GPIIb/IIIa antagonists
Expert Opin. Ther. Patents 2003, 13, 1173-1188
F.I. : 1.488

- J.-M. DOGNE, P. KOLH, S. ROLIN, V. TCHANA-SATO, J. HANSON, X. DE LEVAL, B. LAMBERMONT, A. GHUYSEN, M. PETEIN, L. DE LEVAL, B. MASEREEL, B. PIROTTE
Antithrombotic activity of BM-573, a novel thromboxane modulator, in rat arterial thrombosis model, pig myocardial infarction model and its effect on bleeding time
Blood 2003, 102, 126b
F.I. : 10.370

- J. HANSON, S. ROLIN, X. DE LEVAL, P. NEVEN, L. DE LEVAL, B. MASEREEL, B. PIROTTE, J.-M. DOGNE
BM-613, a new thromboxane A_2 antagonist, is characterized by a preferential activity on platelet thromboxane A_2 receptors
Blood 2003, 102, 813a-814a
F.I. : 10.370

- X. DE LEVAL, T. DASSESSE, V. BENOIT, B. PIROTTE, M.-P. MERVILLE, J.-L. DAVID, V. CASTRONOVO, J.-M. DOGNE
Pharmacological evaluation of BM-573, a dual thromboxane A_2 receptor antagonist and thromboxane synthase inhibitor, as potential anti-metastatic agent
Blood 2003, 102, 72b
F.I. : 10.370

- S. SEBILLE, P. DE TULLIO, S. BOVERIE, M.-H. ANTOINE, P.LEBRUN, B. PIROTTE
Recent developments in the chemistry of potassium channel activators : the cromakalim analogues
Curr. Med. Chem. 2004, 11, 1213-1222
F.I. : 5.207

- J.-M. DOGNE, X. DE LEVAL, J. HANSON, M. FREDERICH, B. LAMBERMONT, A. GHUYSEN, A. CASINI, B. MASEREEL, K.-E. RUAN, B. PIROTTE, P. KOLH
New developments on thromboxane and prostacyclin modulators. Part I: thromboxane modulators
Curr. Med. Chem. 2004, 11, 1223-1241
F.I. : 5.207

- X. DE LEVAL, J. HANSON, J.-L. DAVID, B. MASEREEL, B. PIROTTE, J.-M. DOGNE
New developments on thromboxane and prostacyclin modulators. Part II: prostacyclin modulators
Curr. Med. Chem. 2004, 11, 1243-1252
F.I. : 5.207

- E. GRAINDORGE, P. FRANCOTTE, S. BOVERIE, P. DE TULLIO, B. PIROTTE
New trends in the development of positive allosteric modulators of AMPA receptors

Curr. Med. Chem. – Central Nervous System Agents 2004, 4, 95-103.

- J. HANSON, P. KOLH, S. ROLIN, V. TCHANA-SATO, X. DE LEVAL, B. LAMBERMONT, A. GHUYSEN, M. PETEIN, J.-L. DAVID, B. MASEREEL, B. PIROTTE, J.-M. DOGNE
In vivo pharmacological evaluation of BM-573, an original thromboxane A_2 receptor antagonist and thromboxane synthase inhibitor
Fundam. Clin. Pharmacol. 2004, 18, 270
F.I. : 1.771

- J. HANSON, S. ROLIN, X. DE LEVAL, P. NEVEN, B. MASEREEL, B. PIROTTE, J.-M. DOGNE
Characterization of preferential activity on platelet thromboxane A_2 receptors of BM-613, a new thromboxane A_2 antagonist
Fundam. Clin. Pharmacol. 2004, 18, 269
F.I. : 1.771

- I. KEMPEN, S. COUNEROTTE, F. FRANKENNE, A. NOEL, J.-M. FOIDART, B. PIROTTE
Effects of recently developed 6-substituted 3-bromophenyl 2-oxo-2H-1-benzopyran-3-carboxylate derivatives on HT1080 cell invasion in vitro
Fundam. Clin. Pharmacol. 2004, 18, 271
F.I. : 1.771

- S. SEBILLE, S. BOVERIE, B. BECKER, M.-H. ANTOINE, P. DE TULLIO, P. LEBRUN, B. PIROTTE
Effects of cromakalim analogues on rat pancreatic B-cells, rat aorta rings and rat uterus. Study of their mechanism of action as potassium channel activators
Fundam. Clin. Pharmacol. 2004, 18, 271
F.I. : 1.771

- P. FRANCOTTE, E. GRAINDORGE, S. BOVERIE, P. DE TULLIO, B. PIROTTE
New trends in the design of drugs against Alzheimer's disease
Curr. Med. Chem. 2004, 11, 1757-1778
F.I. : 5.207

- J.-M. DOGNE, J. HANSON, X. DE LEVAL, P. KOLH, V. TCHANA-SATO, L. DE LEVAL, S. ROLIN, A. GHUYSEN, P. SEGERS, B. LAMBERMONT, B. MASEREEL, B. PIROTTE
Pharmacological characterization of N-tert-butyl-N'-[2-(4'-methylphenylamino)-5-nitrobenzenesulfonyl]urea (BM-573), a novel thromboxane A_2 receptor antagonist and thromboxane synthase inhibitor in a rat model of arterial thrombosis and its effects on bleeding time
J. Pharmacol. Exp. Ther. 2004, 309, 498-505
F.I. : 3.956

- X. DE LEVAL, F. JULEMONT, V. BENOIT, M. FREDERICH, B. PIROTTE, J.-M. DOGNE
First and second generations of COX-2 selective inhibitors
Mini Reviews in Medicinal Chemistry 2004, 4, 597-601
F.I. : 3.163

- F. JULEMONT, J.-M. DOGNE, B. PIROTTE, X. DE LEVAL
Recent development in the field of dual COX / 5-LOX inhibitors
Mini Reviews in Medicinal Chemistry 2004, 4, 633-638
F.I. : 3.163

- J.-M. DOGNE, J. HANSON, X. DE LEVAL, B. MASEREEL, P. KOLH, B. PIROTTE
New developments on thromboxane modulators
Mini Reviews in Medicinal Chemistry 2004, 4, 649-657
F.I. : 3.163

- I. ROLAND, X. DE LEVAL, B. EVRARD, B. PIROTTE, J.-M. DOGNE, L. DELATTRE
Modulation of the arachidonic cascade with □3 fatty acids or analogues: potential therapeutic benefits
Mini Reviews in Medicinal Chemistry 2004, 4, 659-668
F.I. : 3.163

- F. JULEMONT, X. DE LEVAL, C. MICHAUX, J.-F. RENARD, J.-Y. WINUM, J.-L. MONTERO, J. DAMAS, J.-M. DOGNE, B. PIROTTE
Design, synthesis and pharmacological evaluation of pyridinic analogues of nimesulide as cyclooxygenase-2 selective inhibitors
J. Med. Chem. 2004, 47, 6749-6759
F.I. : 5.115

- A. MOUITHYS-MICKALAD, G. DEBY-DUPONT, J.-M. DOGNE, X. DE LEVAL, S. KOHNEN, R. NAVET, F. SLUSE, M. HOEBEKE, B. PIROTTE, M. LAMY
Effects of COX-2 inhibitors on ROS produced by Chlamydia pneumoniae-primed human promonocytic cells (THP-1)
Biochem. Biophys. Res. Commun. 2004, 325, 1122-1130 F.I. : 2.855

- P. FRANCOTTE, S. BOVERIE, P. FRAIKIN, P. LESTAGE, L. DANOBER, D.-H. CAIGNARD, P. DE TULLIO, B. PIROTTE
Prodrugs of AMPA potentiators structurally related to IDRA21 : design, preparation , hydrolysis study and pharmacological evaluation
Fundam. Clin. Pharmacol. 2004, 18, 595
F.I. : 1.771

- J. HANSON, J.-F. RENARD, P. NEVEN, X. DE LEVAL, S. ROLIN, B. PIROTTE, J.-M. DOGNE
Synthesis and pharmacological evaluation of original thromboxane A_2 receptor antagonists derived from BM-573
Fundam. Clin. Pharmacol. 2004, 18, 596
F.I. : 1.771

- I. KEMPEN, F. FRANKENNE, A. TELLIEZ, N. POMMERY, J.-P. HENICHART, J.-M. FOIDART, B. PIROTTE
Design and pharmacological evaluation of recently developed 6-substituted 3-bromophenyl 2-oxo-2H-1-benzopyran-3-carboxylate derivatives as putative inhibitors of cell invasion
Fundam. Clin. Pharmacol. 2004, 18, 596
F.I. : 1.771

- C. MICHAUX, F. JULEMONT, X. DE LEVAL, J.M. DOGNE, B. PIROTTE, F. DURANT

Identification of COX-2 selective inhibitor
Fundam. Clin. Pharmacol. 2004, 18, 598
F.I. : 1.771

- S. SEBILLE, P. DE TULLIO, M.-H. ANTOINE, S. BOVERIE, P. LEBRUN, B. PIROTTE
New analogues of the KATP channel opener cromakalim : synthesis and pharmacological evaluation on rat pancreatic B-cells and rat aorta rings
Fundam. Clin. Pharmacol. 2004, 18, 599
F.I. : 1.771

- J. HANSON, X. DE LEVAL, J.L. DAVID, C. SUPURAN, B. PIROTTE, J.M. DOGNE
Progress in the field of GPIIb/IIIa antagonists
Curr. Med. Chem. Cardiovasc. Hematol. Agents 2004, 2, 157-167

- J. HANSON, S. ROLIN, D. REYNAUD, N. QIAO, L.P. KELLEY, H.M. REID, F. VALENTIN, J. TIPPINS, B.T. KINSELLA, B. MASEREEL, C. PACE-ASCIAK, B. PIROTTE, J.M. DOGNE
In vitro and *in vivo* pharmacological characterization of BM-613 [N-n-pentyl-N'-[2-(4'-methylphenylamino)-5-nitrobenzenesulfonyl]urea], a novel dual thromboxane synthase inhibitor and thromboxane receptor antagonist
J. Pharmacol. Exp. Ther. 2005, 313, 293-301
F.I. : 3.956

- S. SEBILLE, P. DE TULLIO, B. BECKER, M.-H. ANTOINE, S. BOVERIE, B. PIROTTE, P. LEBRUN
4,6-Disubstituted 2,2-dimethylchromans structurally related to the K_{ATP} channel opener cromakalim : design, synthesis, and effect on insulin release and vascular tone
J. Med. Chem. 2005, 48, 614-621
F.I. : 5.115

- S. BOVERIE, M.-H. ANTOINE, F. SOMERS, B. BECKER, S. SEBILLE, R. OUEDRAOGO, S. COUNEROTTE, B. PIROTTE, P. LEBRUN, P. DE TULLIO
Effect on K_{ATP} channel activation properties and tissue selectivity of the nature of the substituent in the 7- and the 3-position of 4*H*-1,2,4-benzothiadiazine 1,1-dioxides
J. Med. Chem. 2005, 48, 3492-3503
F.I. : 5.115

- B. PIROTTE, P. DE TULLIO, M.-H. ANTOINE, S. SEBILLE, X. FLORENCE, P. LEBRUN
New insights into the development of ATP-sensitive potassium channel openers
Expert Opin. Ther. Patents 2005, 15, 497-504
F.I. : 1.488

- L. DUPONT, B. PIROTTE, P. DE TULLIO
Crystal structure of 7-chloro-3-isopropylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxide, $C_{10}H_{12}ClN_3O_2S$
Z. Kristallogr. NCS 220, 2005, 353-354
F.I. : 0.269

- P. DE TULLIO, S. BOVERIE, B. BECKER, M.-H. ANTOINE, Q.-A. NGUYEN, P. FRANCOTTE, S. COUNEROTTE, S. SEBILLE, B. PIROTTE, P. LEBRUN
3-Alkylamino-4*H*-1,2,4-benzothiadiazine 1,1-dioxides as ATP-sensitive potassium channel openers : effect of 6,7-disubstitution on potency and tissue selectivity
J. Med. Chem. 2005, 48, 4990-5000
F.I. : 5.115

- L. DUPONT, S. BOVERIE, P. DE TULLIO, B. PIROTTE
Crystal structure of 7-chloro-3-isopropylsulfanyl-4*H*-1,2,4-benzothiadiazine 1,1-dioxide, $C_{10}H_{11}ClN_2O_2S_2$
Z. Kristallogr. NCS 220, 2005, 467-468
F.I. : 0.269

- C. MICHAUX, C. CHARLIER, F. JULEMONT, X. DE LEVAL, J.M. DOGNE, B. PIROTTE, F. DURANT
A new potential cyclooxygenase-2 inhibitor, pyridinic analogue of nimesulide
Eur. J. Med. Chem. 2005, 40, 1316-1324
F.I. : 2.187

- J.M. DOGNE, S. ROLIN, M. PETEIN, V. TCHANA-SATO, A. GHUYSEN, B. LAMBERMONT, J. HANSON, D. MAGIS, P. SEGERS, B. PIROTTE, B. MASEREEL, P. DRION, V. D'ORIO, P. KOLH
Characterization of an original model of myocardial infarction provoked by coronary artery thrombosis induced by ferric chloride in pig
Thromb. Res. 2005, 116, 431-442
F.I. : 2.058

- L. DUPONT, S. BOVERIE, B. PIROTTE, P. DE TULLIO
Crystal structure of 7-chloro-3-isopropoxy-4*H*-1,2,4-benzothiadiazine 1,1-dioxide monohydrate, $C_{10}H_{13}ClN_2O_4S \cdot H_2O$
Z. Kristallogr. NCS 220, 2005, 565-566
F.I. : 0.269

- R. FREDERICK, S. ROBERT, C. CHARLIER, J. DE RUYCK, J. WOUTERS, B. PIROTTE, B. MASEREEL, L. POCHET
3,6-Disubstituted coumarins as mechanism-based inhibitors of thrombin and factor Xa
J. Med. Chem. 2005, 48, 7592-7603
F.I. : 5.115

- S. KHELILI, P. LEBRUN, P. DE TULLIO, B. PIROTTE
Synthesis and pharmacological evaluation of some *N*-arylsulfonyl-*N*-methyl-*N'*-(2,2-dimethyl-2*H*-1-benzopyran-4-yl)ureas structurally related to cromakalim
Bioorg. Med. Chem. 2006, 14, 3530-3534
F.I. : 2.624

- J.F. RENARD, F. JULEMONT, X. DE LEVAL, B. PIROTTE
The use of nimesulide and its analogues in cancer chemoprevention
Anti-cancer Agents in Medicinal Chemistry 2006, 6, 233-237

- P. FRANCOTTE, P. DE TULLIO, P. FRAIKIN, B. PIROTTE
New trends in the design of drugs against Alzheimer's disease
Frontiers in Medicinal Chemistry, 2006, 3, 249-284

- J.-M. DOGNE, J. HANSON, X. DE LEVAL, D. PRATICO, C.R. PACE-ASCIAK, P. DRION, B. PIROTTE, K.H. RUAN
From the design to the clinical application of thromboxane modulators
Curr. Pharm. Des. 2006, 12, 903-923
F.I. : 5.270

- T. DASSESSE, X. DE LEVAL, L. DE LEVAL, B. PIROTTE, V. CASTRONOVO, D. WALTREGNY
Activation of the thromboxane A_2 pathway in human prostate cancer correlates with tumor Gleason score and pathologic stage
European Urology, 2006, 50, 1021-1031
F.I. : 4.850

- X. DE LEVAL, T. DASSESSE, L.-M. DOGNE, D. WALTREGNY, A. BELLAHCENE, V. BENOIT, B. PIROTTE *, V. CASTRONOVO * (* co-superviseurs derniers auteurs)
Evaluation of original dual thromboxane A_2 modulators as anti-angiogenic agents
J. Pharmacol. Exp. Ther. 2006, 318, 1057-1067

-S. SEBILLE, D. GALL, P. DE TULLIO, X. FLORENCE, P. LEBRUN, B. PIROTTE
Design, Synthesis and Pharmacological Evaluation of *R/S*-3,4-Dihydro-2,2-Dimethyl-6-Halo-4-(Phenylaminocarbonylamino)-2*H*-1-Benzopyrans: Towards Tissue-Selective Pancreatic B-Cells KATP Channel Openers Structurally Related to (±)-Cromakalim
J. Med. Chem. 2006, 49, 4690-4697
F.I. : 5.115

- J. HANSON, D. REYNAUD, N. QIAO, P. DEVEL, A.-L. MORAY, J.-F. RENARD, L.P. KELLEY, J.-Y. WINUM, J.-L. MONTERO, B.T. KINSELLA, B. PIROTTE, C.R. PACE-ASCIAK, J.-M. DOGNE
Synthesis and pharmacological evaluation of novel nitrobenzenic thromboxane modulators as antiplatelet agents acting on both the alpha and beta isoforms of the human thromboxane receptor
J. Med. Chem. 2006, 49, 3701-3709
F.I. : 5.115

- P. DE TULLIO, L. DUPONT, P. FRANCOTTE, S. COUNEROTTE, P. LEBRUN, B. PIROTTE
Three-Dimensional Quantitative Structure-Activity Relationships of ATP-Sensitive Potassium (K_{ATP}) Channel Openers Belonging to the 3-Alkylamino-4*H*-1,2,4-benzo- and 3-Alkylamino-4*H*-1,2,4-pyridothiadiazine 1,1-Dioxide Families
J. Med. Chem., 2006, 49, 6779 -6788
F.I. : 5.115

- C. MICHAUX, X. DE LEVAL, F. JULEMONT, J.-M. DOGNE, B. PIROTTE, F. DURANT
Structure-based pharmacophore of COX-2 selective inhibitors and identification of original lead compounds from 3D database searching method
Eur. J. Med. Chem. 2006, 41, 1446-1455
F.I. : 2.187

- P. FRANCOTTE, P. DE TULLIO, P. FRAIKIN, S. COUNEROTTE, E. GOFFIN, B. PIROTTE
In search of novel AMPA potentiators
Recent Patents on CNS Drug Discovery 2006, 1, 239-246

- P. DE TULLIO, P. LEBRUN, X. FLORENCE, M.-H. ANTOINE, P. FRANCOTTE, B. PIROTTE
Selective pancreatic ATP-sensitive potassium channel openers for the treatment of glucose homeostasis disorders
Drugs of the Future 2006, 31, 991-1001
F.I. : 0.777

- J. HANSON, J.-M. DOGNE, J. GHIOTTO, A.-L. MORAY, B.T. KINSELLA, B. PIROTTE
Design, synthesis, and SAR study of a series of *N*-alkyl-*N'*-[2-(aryloxy)-5-nitrobenzenesulfonyl]ureas and -cyanoguanidine as selective antagonists of the TPalpha and TPbeta isoforms of the human thromboxane A_2 receptor
J. Med. Chem. 2007, 50, 3928-3936
F.I. : 5.115

- P. FRANCOTTE, P. DE TULLIO, E. GOFFIN, G. DINTILHAC, E. GRAINDORGE, P. FRAIKIN, P. LESTAGE, L. DANOBER, J.-Y. THOMAS, D.-H. CAIGNARD, B. PIROTTE
Design, Synthesis, and Pharmacology of Novel 7-Substituted 3,4-Dihydro-2*H*-1,2,4-benzothiadiazine 1,1-Dioxides as Positive Allosteric Modulators of AMPA Receptors
J. Med. Chem. 2007, 50, 3153-3157
F.I. : 5.115

- B. PIROTTE
Laboratoire de chimie pharmaceutique – Ulg
Chimie Nouvelle 2007, 95, 68-75.

- P. FRANCOTTE, P. DE TULLIO, B. PIROTTE
Cholinergic Transmission and Acetylcholine release enhancers, pp 96-103
Protein Misfolding in Neurodegenerative Diseases: Mechanisms and Therapeutic Strategies, Eds: H.J. Smith, C. Simons, R.D.E. Sewell, CRC Press, 2007.

- P. FRANCOTTE, P. DE TULLIO, B. PIROTTE
AChE Inhibitors and their Clinical Assessment, pp 114-144
Protein Misfolding in Neurodegenerative Diseases: Mechanisms and Therapeutic Strategies, Eds: H.J. Smith, C. Simons, R.D.E. Sewell, CRC Press, 2007.

- P. FRANCOTTE, P. DE TULLIO, B. PIROTTE
Novel dipyrazoles acting as glutamate modulators
Expert Opinion on Therapeutic Patents 2007, 17, 1489-1493 F.I. : 1.488

- A. BAYOT, N. BASSE, I. LEE, M. GAREIL, B. PIROTTE, A.L. BULTEAU, B. FRIGUET, M. REBOUD-RAVAUX
Towards the control of intracellular protein turnover: Mitochondrial Lon protease inhibitors versus proteasome inhibitors
Biochimie 2008, 90, 260-269
F.I. : 3.237

- P. LEBRUN, B. BECKER, N. MOREL, P. GHISDAL, M.-H. ANTOINE, P. DE TULLIO, B. PIROTTE
KATP channel openers: tissue selectivity of original 3-alkylaminopyrido- and 3-alkylaminobenzothiadiazine 1,1-dioxides
Biochem. Pharmacol. 2008, 75, 468-475
F.I. : 3.581

- S. SEBILLE, P. DE TULLIO, X. FLORENCE, B. BECKER, M.-H. ANTOINE, C. MICHAUX, J. WOUTERS, B. PIROTTE, P. LEBRUN
New R/S-3,4-dihydro-2,2-dimethyl-6-halo-4-(phenylaminothiocarbonylamino)-2*H*-1-benzopyrans structurally related to (+/-)-cromakalim as tissue-selective pancreatic beta-cell K_{ATP} channel openers
Bioorg. Med. Chem. 2008, 16, 5704-5719
F.I. : 2.624

- S. KHELILI, X. FLORENCE, M. BOUHADJA, S. ABDELAZIZ, N. MECHOUCH, Y. MOHAMED, P. DE TULLIO, P. LEBRUN, B. PIROTTE
Synthesis and activity on rat aorta rings and rat pancreatic []-cells of ring-opened analogues of benzopyran-type potassium channel activators
Bioorg. Med. Chem. 2008, 6124-6130
F.I. : 2.624

- T. FRANCK, S. KOHNEN, S. GRULKE, P. NEVEN, Y. GOUTMAN, F. PETERS, B. PIROTTE, G. DEBY-DUPONT, D. SERTEYN
Inhibitory effect of curcuminoids and tetrahydrocurcuminoids on equine activated neutrophils and myeloperoxidase activity
Physiol. Res. 2008, in press
F.I. : 2.093

- A. ARRAULT, S. ROCCHI, F. PICARD, P. MAUROIS, B. PIROTTE, J. VAMECQ
A short series of antidiabetic sulfonylureas exhibit multiple ligand PPARgamma-binding patterns
Biomed. Pharmacother. 2008, in press
F.I. : 1.526

- I. KEMPEN, M. HEMMER, S. COUNEROTTE, L. POCHET, P. DE TULLIO, J.-M. FOIDART, S. BLACHER, A. NOEL, F. FRANKENNE, B. PIROTTE
6-Substituted 2-oxo-2*H*-1-benzopyran-3-carboxylic acid derivatives in a new approach of the treatment of cancer cell invasion and metastasis
Eur. J. Med. Chem. 2008, in press
F.I. : 2.187

PATENTS

- B. MASEREEL, B. PIROTTE, M. SCHYNTS, J. DELARGE
Nouveaux derivés de la pyridylsulfonylurée et de la pyridylsulfonylthiourée, leur procédé de préparation et les compositions pharmaceutiques qui les contiennent
(Preparation of N-(pyridylsulfonyl)ureas and -thioureas as antihypertensives and antiedema agents)
Brevet Français n° 90 02659, 2/3/90; Eur. Pat. 91/400563.2, 1/3/91

- B. MASEREEL, B. PIROTTE, M. SCHYNTS, J. DELARGE
Nouveau dérivé de la pyridylsulfonylurée, ses procédés de préparation, et les compositions pharmaceutiques le contenant
(Preparation of N-(4-cycloheptylamino-3-pyridyl)sulfonyl-N'-cycloheptylurea as a drug)
Brevet Français n° 92 0031, 6/1/92; Eur. Pat. 93/400003.5

- B. PIROTTE, P. DE TULLIO, B. MASEREEL, J. DELARGE, J. LEPAGNOL, P. RENARD
Nouvelles pyridothiadiazines, leurs procédés de préparation, et les compositions pharmaceutiques qui les contiennent
(New pyridothiadiazines, processes for their preparation, and pharmaceutical compositions containing them)
Brevet Français n° 93 03458, 26/3/93; Eur. Pat. 94/400627.9, 24/3/94

- B. PIROTTE, P. NEVEN, I. DELNEUVILLE, G. PIEL
Sel de nimésulide hydrosoluble, solution aqueuse le contenant, sa préparation et son utilisation
Brevet Belge n° 09400582, 16/6/94

- B. PIROTTE, G. PIEL, P. NEVEN, I. DELNEUVILLE
Sel de nimésulide hydrosoluble et sa préparation, solution aqueuse le contenant, associations à base de nimésulide, et, leurs utilisations
Demande de brevet international n° PCT/BE95/00055, 16/6/95

- B. PIROTTE, P. LEBRUN, P. DE TULLIO, F. SOMERS, J. DELARGE, H.C. HANSEN, F.E. NIELSEN, J.B. HANSEN
Pyrido-1,2,4-thiadiazine and pyrido-1,4-thiazine derivatives, their preparation and use
(Preparation of pyrido-1,2,4-thiadiazines and pyrido-1,4-thiazines as openers of the K_{ATP}-regulated potassium channels)
Patent application n° 97900933.9-2101, DK96/42, 17/1/96; PCT/DK97/00018, 16/1/97; WO 97/26464

- M. REBOUD-RAVAUX, L. POCHET, C. DOUCET, B. PIROTTE, N. BOGGETTO, J. DELARGE
Nouveaux dérivés de coumarines, leurs procédés de préparation et leur application comme médicaments en tant qu'inhibiteurs de protéases
(Preparation of coumarin derivatives as protease inhibitors)

Brevet Français n° 97 06814, 3/6/97; PCT/FR98/01087, 29/5/98; WO 98/55472

- B. PIROTTE, P. LEBRUN, P. DE TULLIO, F. SOMERS, J. DELARGE, J.B. HANSEN, F.E. NIELSEN, H.C. HANSEN, J.P. MOGENSEN, T.M. TAGMOSE
1,2,4-Benzothiadiazine derivatives, their preparation and use
(Preparation of 1,2,4-benzothiadiazines as openers of the K_{ATP}-regulated potassium channels)
Patent application DK 96-693, 21/6/96; PCT/DK97/00266, 19/6/97; WO 97/49692

- F.Z. DORWALD, J.B. HANSEN, J.P. MOGENSEN, T.M. TAGMOSE, B. PIROTTE, P. LEBRUN, P. DE TULLIO, S. BOVERIE
Derivatives of 2,5- and 3,5-disubstituted anilines, their preparation and use as potassium channel openers
Patent application DK 97-906, 5/8/97; PCT/DK98/00337, 24/7/98; WO 99/07672

- DE TULLIO, S. BOVERIE, F. SOMERS, P. LEBRUN, B. PIROTTE (ULg – ULB)
J.P. MOGENSEN, H.C. HANSEN, F.E. NIELSEN, J.B. HANSEN (Novo Nordisk)
Benzo-1,2,4-thiadiazine derivatives, their preparation and use
(Preparation of 1,2,4-benzothiadiazine 1,1-dioxide derivatives as potassium channel openers)
Patent application n°5524/5393, 19/12/97; WO 99/32467, 11/12/98

- DE TULLIO, S. BOVERIE, F. SOMERS, P. LEBRUN, B. PIROTTE (ULg – ULB)
F.E. NIELSEN, J.B. HANSEN (Novo Nordisk)
Pyrido-1,2,4-thiadiazine derivatives, their preparation and use
(Preparation of pyrido-1,2,4-thiadiazines as KATP channel openers)
Patent application n°5526/5437, 19/12/97; WO 99/32495, 17/12/98

- B. PIROTTE, P. DE TULLIO, S. BOVERIE, I. KEMPEN, P. LESTAGE
Nouveaux dérivés de benzothiadiazines, leur procédé de préparation et les compositions pharmaceutiques qui les contiennent
Brevet Français n° 99 15034, 30/11/99

- F. JULEMONT, X. DE LEVAL, J.-M. DOGNE, B. PIROTTE, J. DELARGE
Pyridinic sulfonamide derivatives, method of production and use thereof
European Patent n° 01203683.6, 27/9/2001 ; PCT EP 02/10532, 19/09/2002 ; US 2005/0020642 A1, 27/01/2005

- E. GRAINDORGE, P. FRANCOTTE, S. BOVERIE, P. DE TULLIO, B. PIROTTE (ULg)
P. LESTAGE, L. DANOBER, P. RENARD, D.-H. CAIGNARD (Servier)
Nouveaux dérivés de thiadiazine, leur procédé de préparation et les compositions pharmaceutiques qui les contiennent
Brevet Français n° 0305448, 05/05/2003 ; PCT/FR04/01070, 04/05/2004 ; EP 04742632.5, 4/5/2004

- P. FRANCOTTE, P. FRAIKIN, P. DE TULLIO, B. PIROTTE (ULg)
P. LESTAGE, L. DANOBER, D.-H. CAIGNARD (Servier)
Nouveaux dérivés de benzothiadiazines fluorées, leur procédé de préparation et les compositions pharmaceutiques qui les contiennent
Brevet Français n° 0400689, 26/01/2004 ; PCT EP 05290160.0, 25/01/2005

- S. SEBILLE, P. DE TULLIO, S. BOVERIE, M.-H. ANTOINE, P. LEBRUN, B. PIROTTE
Benzopyran derivatives, method of production and use thereof
Brevet Européen n° 04075293.3, 03/02/2004 ; PCT/EP2005/050275, 21/01/2005 ; WO 2005/075463 A1, 18/08/2005

- V. DETRY, S. COUNEROTTE, B. PIROTTE
Pyrimidinetrione derivatives, their preparation and use
Brevet Européen n° 04077400.2, 24/08/2004

- B. PIROTTE, S. COUNEROTTE, V. DETRY, F. FRANKENNE, J.-M. FOIDART, A. NOEL
5-(1,1'-Biphenyl)-4-yl-5-(4-4-aminoacylphenyl)-piperazin)-1-yl-pyrimidine-2,4,6-trione derivatives, as inhibitors of zinc metallopeptidases, their preparation and use.
PCT/EP2005/054035, 16/08/2005; WO 2006/021533 A1

CURRICULUM VITAE

Philippe LEBRUN : M.D, PhD.

Professional address :

« Laboratoire de Pharmacodynamie et de Thérapeutique », Faculty of Medicine, « Université Libre de Bruxelles », Bldg. G/E, 808 Route de Lennik, 1070 Brussels, Belgium

Phone : 32.2.555.62.21
Fax : 32.2.555.63.56
E-mail : plebrun@ulb.ac.be

Home address :

102, Rue des chats, 1082 Brussels, Belgium

Phone : 32.2.465.19.05

Personal information :

Date of birth : April, 13, 1954

Civil status : married, two children

Citizenship : belgian

Languages : french (mother tongue), english (fluent)

Education:

Medical Doctor, « Université Libre de Bruxelles » (Belgium), 1979
PhD in Physiology & Pharmacology, « Université Libre de Bruxelles » (Belgium), 1987
Post-graduate course on « Methods in Clinical Pharmacology », Université de Berne (Switzerland), 1979

Appointments :

Research Director at the National Fund for Scientific Research (Belgium)
Professor of Pharmacology at the "Université Libre de Bruxelles" (Belgium)

Teaching:

Teaching in Pharmacology at the Faculty of Medicine, at the School of Dentistry and at the "Institut des Sciences de la Motricité", "Université Libre de Bruxelles", Belgium.

Research fields:

Physiology & Pharmacology
Endocrine pancreas, smooth muscle, placenta

Original articles: more than 120 in journals such as Am. J. Physiol., Biochem. Biophys., Res. Commun., Biochem. Pharmacol., Biochim. Biophys. Acta, Biophys. J., Br. J. Pharmacol., Cell Calcium, Diabetes, Diabetologia, Eur. J. Pharmacol., Human Reproduction, J. Med. Chem., J. Pharmacol. Exp. Ther. ....

Reviews & Proceedings of Congress : more than 25

Oral and Poster Communications: more than 200

Co-inventor on several patents

Memberships:

European Association for the Study of Diabetes (E.A.S.D.)
Belgian Society of Fundamental and Clinical Physiology and Pharmacology

Scientific Awards:

Victor Lange Prize for Diabetes Research, 1983 (Belgium)
Triennial Auguste Slosse Prize, 1982-1984 (Belgium)
Zambon Prize, 1987 (Belgium)
Alvarenga de Piauhy Prize, 1991 (Royal Acamedy of Medicine, Belgium)
Apollinaire Bouchardat Prize, 1994 (France)

Activities as reviewer:

Archives Internationales de Pharmacodynamie et de Thérapie
Biochimica *et* Biophysica Acta
British Journal of Pharmacology
Diabetologia
European Biophysics Journal
European Journal of Pharmacology
Fundamental & Clinical Pharmacology
Journal of Physiology (London)
Comparative Biochemistry and Physiology

Scientific stay abroad:

"Department of Biophysics", School of Biological Sciences, University of East Anglia, Norwich, U.K., 1983.

"Laboratory of Cell Biology and Genetics" , National Institutes of Health (NIH), Bethesda (Maryland) U.S.A., 1984-1985.

ORIGINAL ARTICLES

- W.J. Malaisse, A. Sener, A.R. Carpinelli, K. Anjaneyulu, P. Lebrun, A. Herchuelz and J. Christophe.
XLVI. The stimulus-secretion coupling of glucose-induced insulin release.
Physiological role of L-glutamine as a fuel for pancreatic islets.
Mol. Cell. Endocrinol. 20: 171-189, 1980.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Calcium fluxes in the process of glucose-induced insulin release.
Arch. Int. Pharmacodyn. Therap. 246: 173-174, 1980.

- A. Herchuelz, P. Lebrun, N. Thonnart, A. Sener and W.J. Malaisse.
Regulation of calcium fluxes in rat pancreatic islets. Quinine mimics the dual effect of glucose on calcium movements.
Biochim. Biophys. Acta 640: 16-30, 1981.

- A. Herchuelz, P. Lebrun, A. Sener and W.J. Malaisse.
Ionic mechanism of diphenylhydantoin action on glucose-induced insulin release.
Europ. J. Pharmacol. 73: 189-197, 1981.

- I. Valverde, A. Sener, P. Lebrun, A. Herchuelz and W.J. Malaisse.
The stimulus-secretion coupling of glucose-induced insulin release.
XLVII. The possible role of calmodulin.
Endocrinology 108: 1305-1312, 1981.

- P. Lebrun, A. Sener, W.J. Malaisse and A. Herchuelz.
Diphenylhydantoin inhibits calcium fluxes and insulin release in pancreatic islets.
Ann. Endocrinol. 42: 291-292, 1981.

- W.J. Malaisse, A.R. Carpinelli, P. Lebrun, A. Herchuelz and A. Sener.
The stimulus-secretion coupling of amino acid-induced insulin release.
IV. Ionic response to L-Leucine and L-Glutamine.
Pflügers Archiv. 391: 112-118, 1981.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Effect of calcium antagonists on potassium conductance in islet cells.
Biochem. Pharmacol. 30: 3291-3294, 1981.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Evidence for two distinct modalities of Ca2+ influx into pancreatic B-cell.
Am. J. Physiol. 242: E59-E66, 1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Modalities of gliclazide-induced Ca2+ influx into the pancreatic B-cell.
Diabetes 31: 1010-1015, 1982.

- W.J. Malaisse, P. Lebrun and A. Herchuelz.
Ionic determinants of bioelectrical spiking activity in the pancreatic B-cell.
Pflügers Archiv. 395: 201-203, 1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Nutrient-induced intracellular calcium movement in rat pancreatic B-cell.
Am. J. Physiol. 243: E196-E205, 1982.

- F. Malaisse-Lagae, A. Sener, P. Lebrun, A. Herchuelz, V. Leclercq-Meyer et W.J. Malaisse.
Réponse sécrétoire, ionique et métabolique des îlots de Langerhans aux anomères du D-mannose.
C.R. Acad. Sc. Paris, Série III 294: 605-607, 1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Effect of the absence of bicarbonate upon intracellular pH and calcium fluxes in pancreatic islet cells.
Biochim. Biophys. Acta 721: 357-365, 1982.

- A. Sener, F. Malaisse-Lagae, P. Lebrun, A. Herchuelz, V. Leclercq-Meyer and W.J. Malaisse.
Anomeric specificity of D-mannose metabolism in pancreatic islets.
Biochem. Biophys. Res. Commun. 108: 1567-1573, 1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Paradoxical activation by glucose of quinine-sensitive potassium channels in the pancreatic B-cell.
Biochem. Biophys. Res. Commun. 107: 350-356, 1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Activation but not inhibition by glucose of Ca2+-dependent K+ permeability in the rat pancreatic B-cell.
Biochim. Biophys. Acta: 731, 145-150, 1983.

- A. Sener, M. Welsh, P. Lebrun, P. Garcia-Morales, M. Saceda, F. Malaisse-Lagae, A. Herchuelz, I. Valverde, C. Hellerström and W.J. Malaisse.
Mechanism of 3-phenylpyruvate-induced insulin release. Secretory, ionic and oxidative events.
Biochem. J. 210: 913-919, 1983.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Impairment by aminooxyacetate of the ionic response to nutrients in pancreatic islets.
Am. J. Physiol. 245: E38-E46, 1983.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Na+-K+ pump activity and the glucose-stimulated Ca2+-sensitive K+ permeability in the pancreatic B-cell.
J. Membrane Biol. 74: 67-73. 1983.

- P. Lebrun, I. Atwater, M. Claret, W.J. Malaisse and A. Herchuelz.
Resistance to apamin of the Ca2+-activated K+ permeability in pancreatic B-cells.
FEBS Lett. 161: 41-44, 1983.

- M. Deleers, P. Lebrun and W.J. Malaisse.
Increase in CO3H- influx and cellular pH in glucose-stimulated pancreatic islets.
FEBS Lett. 154: 97-100, 1983.

- W.J. Malaisse, P. Lebrun, A. Herchuelz, A. Sener and F. Malaisse-Lagae.
Synergistic effect of a tumor-promoting phorbol ester and a hypoglycemic sulfonylurea upon insulin release.
Endocrinology 113: 1870-1877, 1984.

- F. Malaisse-Lagae, M. Welsh, P. Lebrun, A. Herchuelz, A. Sener, C. Hellerström and W.J. Malaisse.
The stimulus-secretion coupling of amino acid-induced insulin release. Secretory and oxidative response of pancreatic islets to L-asparagine.
Diabetes 33: 464-469, 1984.

- P. Lebrun, R. Gomis, M. Deleers, B. Billaudel, P.C.F. Mathias, A. Herchuelz, F. Malaisse-Lagae, A. Sener and W.J. Malaisse.
Methylamines and islet function : cationic aspects.
J. Endocrinol. Invest. 7: 347-355, 1984.

- A. Herchuelz, P. Lebrun, A.C. Boschero and W.J. Malaisse.
Mechanism of arginine-stimulated Ca2+ influx into pancreatic B-cell.
Am. J. Physiol. 246: E38-E43, 1984.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Effect of extracellular phosphate on Ca2+ and K+ fluxes in pancreatic islets.
J. Endocrinol. Invest. 7: 15-19, 1984.

- I. Atwater, A. Goncalves, A. Herchuelz, P. Lebrun, W.J. Malaisse, E. Rojas and A. Scott.
Cooling dissociates glucose-induced insulin release from electrical activity and cation fluxes in rodent pancreatic islets.
J. Physiol. (London) 348: 615-627, 1984.

- A. Caufriez, J. Golstein, P. Lebrun, A. Herchuelz, R.W. Furianetto and G. Copinschi.
Relations between immunoreactive somatomedin C, insulin and T3 patterns during fasting in obese subjects.
Clin. Endocrinology 20: 65-70, 1984.

- A. Sener, R. Gomis, P. Lebrun, A. Herchuelz, F. Malaisse-Lagae and W.J. Malaisse.
Methylamine and islet function : possible relationship to Ca2+-sensitive transglutaminase.
Mol. Cell. Endocrinol. 36: 175-180, 1984.

- B. Billaudel, P.C.F. Mathias, P. Lebrun and W.J. Malaisse.
Influence of extracellular pH upon the ionic and secretory response to gliclazide in pancreatic islets.
Res. Commun. Chem. Pathol. Pharmacol. 43: 139-158, 1984.

- L. Best, P. Lebrun, M. Saceda, P. Garcia-Morales, C. Hubinont, M. Juvent, A. Herchuelz, F. Malaisse-Lagae, I. Valverde and W.J. Malaisse.
Impairment of insulin release by methylation inhibitors.
Biochem. Pharmacol. 33: 2033-2039, 1984.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Resistance to aminooxyacetate of the ionic response to tolbutamide in pancreatic islets.
Horm. Metabol. Res. 16: 322-324. 1984.

- M. Deleers, P. Lebrun and W.J. Malaisse.
Effects of cations, ionophores and hypoglycemic suifonylureas on the fluorescence of fluorescein-labelled pancreatic islets.
Res. Commun. Chem. Pathol. Pharmacol. 44: 83-92, 1984.

- P. Lebrun, W.J. Malaisse et A. Herchuelz.
Mécanismes de l'entrée de Ca2+ induite par le gliclazide dans les cellules B des îlots de Langerhans.
Le Journal International de Médecine 9: 39-46, 1984.
(Traduction à la demande du J.I.M. d'un article paru dans Diabetes 31: 1010-1015, 1982).

- R. Gomis, P.C.F. Mathias, P. Lebrun, F. Malaisse-Lagae, A. Sener and W.J. Malaisse.
Inhibition of transglutaminase by hypoglycaemic sulphonylureas in pancreatic islets and its possible relevance to insulin release.
Res. Commun. Chem. Pathol. Pharmacol. 46: 331-349, 1984.

- M. Deleers, P. Lebrun and W.J. Malaisse.
Nutrient-induced changes in the pH of pancreatic islet cells.
Horm. Metabol. Res. 17: 391-395, 1985.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Do hypoglycemic sulfonylureas inhibit Na+, K+-ATPase activity in pancreatic islets ?
Am. J. Physiol. 248: E491-E499, 1985.

- P. Lebrun, I. Atwater, L.M. Rosario, A. Herchuelz and W.J. Malaisse.
Dissociation by methylamine of insulin release from glucose-induced electrical activity in isolated mouse islets of Langerhans.
Metabolism 34: 1122-1127, 1985.

- J. Fontaine and P. Lebrun.
Effects of neurotensin on the isolated mouse distal colon.
Europ. J. Pharmacol. 107: 141-147, 1985.

- P. Lebrun and I. Atwater.
Chaotic and irregular bursting electrical activity in mouse pancreatic B-cells.
Biophys. J. 48: 529-531, 1985.

- P. Lebrun and I. Atwater.
Effects of the calcium channel agonist, BAY K 8644, on electrical activity in mouse pancreatic B-cells.
Biophys. J. 48: 919-930, 1985.

- C.M. Dawson, P. Lebrun, A. Herchuelz, W.J. Malaisse, A.A. Goncalves and I. Atwater.
Effect of temperature upon potassium-stimulated insulin release and calcium entry in mouse and rat islets.
Horm. Metabol. Res. 18: 221-224, 1986.

- P. Lebrun, E. Van Ganse, M. Juvent, M. Deleers and A. Herchuelz.
Na+-H+ exchange in the process of glucose-induced insulin release from the pancreatic B-cell. Effects of amiloride on 86Rb , 45Ca fluxes and insulin release.
Biochim. Biophys. Acta 886: 448-456, 1986.

- P. Lebrun, M. Hermann, T. Yasumoto and A. Herchuelz.
Effects of Maitotoxin on ionic and secretory events in rat pancreatic islets.
Biochem. Biophys. Res. Commun. 144: 172-177, 1987.

- J. Fontaine and P. Lebrun.
Pharmacological analysis of the effects of BAY K 8644 and organic calcium antagonists on the isolated mouse distal colon.
Br. J. Pharmacol. 94: 1198-1206, 1988.

- P. Lebrun, M. Hermann, J.P. Dehaye, J. Christophe and A. Herchuelz.
Failure of leiurus quinquestriatus venom to affect potassium movements in pancreatic islets.
Biochem. Biophys. Res. Commun 152: 1242-1247, 1988.

- P. Lebrun, V. Devreux, M. Hermann and A. Herchuelz.
Pinacidil inhibits insulin release by increasing K+ outflow from pancreatic B-cells.
Europ. J. Pharmacol. 156: 283-286, 1988.

- A. Sener, P. Lebrun, F. Blachier and W.J. Malaisse.
Stimulus-secretion coupling of arginine-induced insulin release. Insulinotropic action of agmatine.
Biochem. Pharmacol. 38: 327-330, 1989.

- J. Fontaine and P. Lebrun.
Contractile effects of substance P and other tachykinins on the isolated mouse distal colon.
Br. J. Pharmacol. 96: 583-590, 1989.

- P. Lebrun, P.O. Plasman and A. Herchuelz.
Effect of extracellular sodium removal upon 86Rubidium outflow from pancreatic islet cells.
Biochim. Biophys. Acta : 1011 : 6-11, 1989.

- P. Lebrun, V. Devreux, M. Hermann and A. Herchuelz.
Similarities between the effects of pinacidil and diazoxide on Ionic and secretory events in rat pancreatic islets.
J. Pharmacol. Exp. Ther. 250 : 1011-1018, 1989.

- J. Fontaine and P. Lebrun.
Galanin : Ca2+-dependent contractile effects on the isolated mouse distal colon.
Eur. J. Pharmacol. 164 : 583-586, 1989.

- V. Devreux, P.O. Plasman, P. Lebrun and A. Herchuelz.
Effect of S 9795, a new xanthine derivative, on the release of insulin from rat pancreatic islets.
Arzneim.-Forsch./Drug Res. 40 : 268-271, 1990.

- P. Lebrun and J. Fontaine.
Relaxation response to pinacidil and diazoxide in the mouse isolated distal colon.
Pharmacology 40 : 21-26, 1990.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn.
Stimulatory effects of extracellular calcium on chorionic gonadotrophin and placental lactogen release by human placental explants.
Placenta 11 : 181-190, 1990.

- P.O. Plasman, M. Hermann, A. Herchuelz and P. Lebrun.
Sensitivity to Cd2+ but resistance to Ni2+ of Ca2+ inflow into rat pancreatic islets.
Am. J. Physiol. 258 : E529-E533, 1990.

- W.J. Malaisse, P. Lebrun, B. Yaylali, J. Camara, I. Valverde and A. Sener.
Ketone bodies and islet function : insulin output, calcium handling and proinsulin biosynthesis.
Am. J. Physiol. 259 : E117-E122, 1990.

- W.J. Malaisse, P. Lebrun, J. Rasschaert, F. Blachier, T. Yilmaz and A. Sener.
Ketone bodies and islet function : 86Rb handling and metabolic aspects.
Am. J. Physiol. 259 : E123-E130, 1990.

- P. Lebrun, Z.Y. Fang, M.-H. Antoine, A. Herchuelz, M. Hermann, G. Berkenboom and J. Fontaine.
Hypoglycaemic sulfonylureas antagonize the effects of cromakalim and pinacidil on 86Rb fluxes and contractile activity in rat aorta.
Pharmacology : 41 : 36-48, 1990.

- P.-0. Plasman, P. Lebrun and A. Herchuelz.
Characterization of the process of sodium/calcium exchange in pancreatic islet cells.
Am. J. Physiol. 259 : E844-E850, 1990.

- P. Lebrun, M.-H. Antoine, V. Devreux, M. Hermann and A. Herchuelz.
Paradoxical inhibitory effect of cromakalim on 86Rb outflow from pancreatic islet cells.
J. Pharmacol. Exp. Ther. 255 : 948-954, 1990.

- A.C. Boschero, S. Bordin, A. Herchuelz and P. Lebrun.
Effects of glucose on 45Ca outflow, cytosolic Ca2+ concentration and insulin release from freshly isolated and cultured adult rat islets.
Cell Calcium 11 : 603-609, 1990.

- P.O. Plasman, A. Herchuelz and P. Lebrun.
Dual effect of 1,4-dihydropyridines on Ca2+ inflow into rat pancreatic islets.
Naunyn Schmiedeberg's Arch. Pharmacol. 343 : 90-95, 1991.

- P.O. Plasman, P. Lebrun, E.J. Cragoe and A. Herchuelz.
Inhibition of Na/Ca exchange in pancreatic islet cells by dichlorobenzamilamiloride.
Biochem. Pharmacol. 41 : 1759-1768, 1991.

- M.-H. Antoine, M. Hermann, A. Herchuelz and P. Lebrun.
Ionic and secretory response of pancreatic islet cells to minoxidil sulfate.
J. Pharmacol. Exp. Ther. 258 : 286-291, 1991.

- P. Lebrun, M.-H. Antoine, M. Hermann and A. Herchuelz.
RP 49356 : Inhibitory effects on ionic and secretory events in rat pancreatic islets.
Europ. J. Pharmacol. 200 : 159-161, 1991.

- M.-H. Antoine, A. Herchuelz and P. Lebrun.
Anoxia and glucose-sensitive 86Rb outflow from rat portal vein.
Pharmacology 44 : 101-106, 1992.

- P. Lebrun and W.J. Malaisse.
Cationic and secretory effects of glimepiride and glibenclamide in perifused rat islets.
Pharmacology & Toxicology 70 : 357-360, 1992.

- M.-H. Antoine, G. Berkenboom, Z.Y. Fang, J. Fontaine, A. Herchuelz and P. Lebrun.

Mechanical and ionic response of rat aorta to diazoxide.
Europ. J. Pharmacol. 216 : 299-306, 1992.

- A. Herchuelz and P. Lebrun.
A role for Na/Ca exchange in the pancreatic B cell. Studies with Thapsigargin and caffeine.
Biochem. Pharmacol. 45 : 7-11, 1993.

- W.J. Malaisse and P. Lebrun.
Iterative stimulation of pancreatic islets by glipizide.
Pharmacology. 46 : 43-49 , 1993.

- M.-H. Antoine, M. Hermann, A. Herchuelz and P. Lebrun.
Sodium nitroprusside inhibits glucose-induced insulin release by activating ATP-sensitive K+ channels.
Biochim. Biophys. Acta. 1175 : 293-301, 1993 .

- W.J. Malaisse, P. Lebrun and A. Sener.
Modulation of the insulinotropic action of glibenclamide and glimepiride by nutrient secretagogues in pancreatic islets from normoglycemic and hyperglycemic rats.
Biochem. Pharmacol. 45 : 1845-1849, 1993.

- B. Pirotte, P. de Tullio, P. Lebrun, M.-H. Antoine, J. Fontaine, B. Masereel, M. Schynts, L. Dupont, A. Herchuelz and J. Delarge.
3-alkylamino-4H-pyrido[4,3-e][1,2,4]thiadiazine 1,1-dioxides as powerful inhibitors of insulin release from rat pancreatic B-cells : a new class of potassium channel openers ?
J. Med. Chem. 36 : 3211-3213, 1993.

- S. Meuris, B. Polliotti, C. Robyn and P. Lebrun.
Ca2+ entry through L-type voltage-sensitive Ca2+ channels stimulates the release of human chorionic gonadotropin and placental lactogen by placental explants.
Biochim. Biophys. Acta 1220 : 101-106, 1994.

- B. Pirotte, M.-H. Antoine, P. de Tullio, M. Hermann, A. Herchuelz, J. Delarge and P. Lebrun.
A pyridothiadiazine (BPDZ 44) as a new and potent activator of ATP-sensitive K+ channels.
Biochem. Pharmacol 47 : 1381-1386, 1994.

- B. Polliotti, P. Lebrun, C. Robyn and S. Meuris.
The release of human chorionic gonadotropin and placental lactogen by placental explants can be stimulated by Ca2+ entry through a Na+ -Ca2+ exchange process.
Placenta 15 : 477-485, 1994.

- M.-H. Antoine, B. Pirotte, M. Hermann, P. de Tullio, J. Delarge, A. Herchuelz and P. Lebrun.
Cationic and secretory effects of BPDZ 44 and diazoxide in rat pancreatic islets.
Experientia 50 : 830-832, 1994.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Inhibition of Na/Ca exchange by Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides in intact rat pancreatic B-cells.
Mol. Cell. Endocrinol. 106 : R1-R5, 1994.

- F. Van Eylen, M.-H. Antoine, P. Lebrun and A. Herchuelz.
Inhibition of Na/Ca exchange stimulates insulin release from isolated rat pancreatic islets.
Fundam. Clin. Pharmacol. 8 : 425-429, 1994.

- P. de Tullio, B. Pirotte, L. Dupont, B. Masereel, D. Laeckmann, T. Podona, 0. Diouf, P. Lebrun and J. Delarge.
Synthesis and structural studies of a new class of heterocyclic compounds : 1,2,4pyridothiadiazine 1,1-dioxides, pyridyl analogues of 1,2,4-benzothiadiazine 1,1-dioxides.
Tetrahedron 51 : 3221-3234, 1995.

- P. Lebrun, A.-M. Vanbellinghen, C. Robyn and S. Meuris.
Simultaneous measurement of 45Ca outflow and hPL release from human placental explants.
Cell Calcium 17 : 384-392, 1995.

- M.-H. Antoine, P. Lebrun and W.J. Malaisse.
Cationic and secretory response to adenosine in perifused rat pancreatic islets.
Diabetes Research 28 : 49-54, 1995.

- W.J. Malaisse, P. Lebrun, B. Pirotte, P.D. Van Poelje, C. Vinambres, M.L. Villanueva-Penacarrillo, I. Valverde, J. Gäbel and P. Rorsman.
The riddle of formycin A insulinotropic action.
Biochem. Mol. Med. 57 : 47-63, 1996.

- P. Lebrun, E. Renström, M.-H. Antoine, K. Bokvist, M. Holmquist, P. Rorsman and W.J. Malaisse.
Dynamics of the cationic, bioelectrical and secretory response to formycin A in pancreatic islet cells.
Pflügers Arch. 431 : 353-362, 1996.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, M. Dunne, C. Kane, M. Hermann, A. Herchuelz, B. Masereel, J. Delarge, P. de Tullio and B. Pirotte.
Activation of ATP-dependent K+ channels and inhibition of insulin release : effect of BPDZ 62.
J. Pharmacol. Exp. Ther. 277 : 156-162, 1996.

- P. de Tullio, B. Pirotte, P. Lebrun, J. Fontaine, L. Dupont, M.-H. Antoine, R. Ouedraogo, C. Maggetto, B. Masereel, 0. Diouf, T. Podona and J. Delarge.
3- and 4-Substituted 4H-Pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxides as potassium channel openers : synthesis, pharmacological evaluation and structure-activity relationships.
J. Med. Chem. 39 : 937-948, 1996.

- S. Meuris, P. Gavriil, A.-M. Vanbellinghen, J. Delogne-Desnoeck, C. Robyn and P. Lebrun.
"In vivo et in vitro" assessment of the influence of ritodrine and oxytocin on the placental secretion of human chorionic gonadotropin and placental lactogen.
Human Reproduction 11 : 664-667, 1996.

- M.-H. Antoine, R. Ouedraogo, J. Sergooris, M. Hermann, A. Herchuelz and P. Lebrun.
Hydroxylamine, a nitric oxide donor, inhibits insulin release and activates ATP-sensitive K+ channels.
Europ. J. Pharmacol. 313 : 229-235. 1996.

- B. Masereel. P. Lebrun, J.M. Dogné, P. de Tullio, B. Pirotte, L. Pochet, 0. Diouf and J. Delarge.
First synthesis of 4-substituted benzenesulfonylcyanoguanidines.
Tetrahedron Letters 37 : 7253-7254, 1996.

- M.-H. Antoine, R. Ouedraogo, M. Hermann, J. Sergooris, A. Herchuelz and P. Lebrun.
3-Morpholinosydnonimine as instigator of a glibenclamide-sensitive reduction of the insulin secretory rate.
Biochem. Pharmacol. 53 : 1211-1213, 1997.

- B. Masereel, R. Ouedraogo, J.M. Dogné, M.-H. Antoine, P. de Tullio, B. Pirotte, L. Pochet, J. Delarge and P. Lebrun.
Synthesis and biological evaluation of sulfonylcyanoguanidines and sulfonamidonitroethylenes as bioisosteres of hypoglycemic sulfonylureas.
Eur. J. Med. Chem. 32 : 453-456, 1997.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, B. Pirotte, A. Herchuelz, K.E. Cosgrove, C. Kane and M.J. Dunne.
Verapamil, a phenylalkylamine Ca2+ channel blocker, inhibits ATP-sensitive K+ channels in insulin-secreting cells from rats.
Diabetologia 40 : 1403-1410, 1997.

- B. Pirotte, T. Podona, O. Diouf, P. de Tullio, P. Lebrun, L. Dupont, F. Somers, J. Delarge, P. Morain, P. Lestage, J. Lepagnol and M. Spedding.
4H-1,2,4-pyridothiadiazine 1,1-dioxides and 2,3-dihydro-4H-1,2,4-pyridothiadiazine 1,1 dioxides chemically related to diazoxide and cyclothiazide as powerful allosteric modulators of (R/S)-2-amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic acid (AMPA) receptors : design, synthesis, pharmacology and structure-activity relationships.
J. Med. Chem. 41 : 2946-2959, 1998.

- R. Ouedraogo, Q.-A. Nguyen, M.-H. Antoine, C. Kane, M.J. Dunne, L. Pochet, B. Masereel and P. Lebrun.
Insulinotropic effect of new glibenclamide isosteres.
J. Pharmacol. Exp. Ther 289 : 625-631, 1999.

- S. Khelili, P. de Tullio, P. Lebrun, M. Fillet, M.-H. Antoine, R. Ouedraogo, L. Dupont, J. Fontaine, A. Felekidis, G. Leclerc, J. Delarge and B. Pirotte.
Preparation and pharmacological evaluation of the R- and S-enantiomers of 3-(2'-butylamino)-4H- and 3-(3'-methyl-2'-butylamino)-4H-pyrido[4,3-e]-1,2,4thiadiazine 1,1-dioxide, two tissue selective ATP-sensitive potassium channel openers.
Bioorg. Med. Chem. 7 : 1513-1520, 1999.

- N. Cirelli, A. Moens, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen and S. Meuris.
Apoptosis in human term placenta is not increased during labor but can be massively induced in vitro.
Biol. Repr. 61 : 458-463 , 1999.

- B. Pirotte, R. Ouedraogo, P. de Tullio, S. Khelili, F. Somers, S. Boverie, L. Dupont, J. Fontaine, J. Damas and P. Lebrun.
3-Alkylamino-4H-pyrido[2,3-e]-1,2,4-thiadiazine 1,1-dioxides structurally related to diazoxide and pinacidil as potassium channel openers acting on vascular smooth muscle cells : design, synthesis and pharmacological evaluation.
J. Med. Chem 43 : 1456-1466, 2000

- P. Lebrun, P. Arkhammar, M.-H. Antoine, Q.-A. Nguyen, J. Bondo Hansen and B. Pirotte.
A potent diazoxide analogue activating ATP-sensitive K+ channels and inhibiting insulin release.
Diabetologia 43 : 723-732, 2000.

- N. Cirelli, P. Lebrun, C. Gueuning, A. Moens, J. Delogne-Desnoeck, C. Dictus-Vermeulen, A.-M. Vanbellinghen, and S. Meuris.
Secretory characteristics and viability of human term placental tissue after overnight cold preservation.
Hum. Reprod. 15 : 756-761, 2000.

- P. Lebrun, M.-H. Antoine, Q.-A. Nguyen, S. Picton and W.J. Malaisse.
Metabolic, cationic and secretory response to D-glucose in depolarized and Ca2+-deprived rat islets exposed to diazoxide.
Cell Calcium 27 : 213-222, 2000.

- N. Cirelli, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen and S. Meuris.
Physiological concentrations of albumin stimulate chorionic gonadotrophin and placental lactogen release from human term placental explants.
Hum. Reprod. 16 : 441-448, 2001.

- F. Somers, R. Ouedraogo, M.-H. Antoine, P. de Tullio, B. Becker, J. Fontaine, J. Damas, L. Dupont, B. Rigo, J. Delarge, P. Lebrun and B. Pirotte.
Original 2-alkylamino-6-halogenoquinazolin-4(3H)-ones and KATP channel activity.
J. Med. Chem. 44 : 2575-2585, 2001.

- B. Becker, M.-H. Antoine, Q.-A. Nguyen, B. Rigo, K.E. Cosgrove, P.D. Barnes, M.J. Dunne, B. Pirotte and P. Lebrun.
Synthesis and characterization of a quinolinonic compound activating ATP-sensitive K+ channels in endocrine and smooth muscle tissues.
Br. J. Pharmacol. 134 : 375-385 , 2001.

- F.C. Pereira, R. Ouedraogo, P. Lebrun, R.M. Barbosa, A.P. Cunha, R.M. Santos and L.M. Rosario.
Insulinotropic action of white lupine seeds (Lupinus albus L.) : effects on ion fluxes and insulin secretion from isolated pancreatic islets.
Biomed. Res. 22 : 103-109, 2001.

- Q.-A. Nguyen, M.-H. Antoine, R. Ouedraogo, M. Hermann, J. Sergooris, B. Pirotte, B. Masereel and P. Lebrun.
"In vitro" and "In vivo" effects of new insulin releasing agents.
Biochem.Pharmacol. 63 : 515-521, 2002.

- M. Dabrowski, F.M. Ashcroft, R. Ashfield, P. Lebrun, B. Pirotte, J. Egebjerg, J. Bondo Hansen and P. Wahl.
The novel diazoxide analog 3-isopropylamino-7-methoxy-4H-1,2,4-benzothiadiazine 1,1-dioxide is a selective Kir6.2/SUR1 channel opener.
Diabetes 51 : 1896-1906, 2002.

- K.E. Cosgrove, M.-H. Antoine, A. T. Lee, P. D. Barnes, P. de Tullio, P. Clayton, R.McCloy, P. De Lonlay, C. Nihoul-Fékété, J.-J. Robert, J.-M. Saudubray, J. Rahier, K. J. Lindley, K. Hussain, A. Aynsley-Green, B. Pirotte, P. Lebrun, and M. Dunne.
BPDZ 154 activates adenosine 5'-triphosphate sensitive potassium channels: in vitro studies using rodent insulin-secreting cells and islets isolated from patients with Hyperinsulinism.
J Clin. Endocrinol. Metab. 87: 4860-4868, 2002.

- R. Ouedraogo, B. Becker, S. Boverie, F. Somers, M.-H. Antoine, B. Pirotte, P. Lebrun and P. de Tullio.
2-Alkyl-3-alkylamino-2H-benzo-and pyridothiadiazine 1,1-dioxides: from K+ATP channel openers to Ca++ channel blockers ?.
Biol. Chem. 383: 1759-1768, 2002.

S. Sebille, R. Ouedraogo, J. Bondo Hansen, P. Lebrun and B. Pirotte
Toward tissue-selective pancreatic B-cells KATP channel openers belonging to 3-alkylamino-7-halo-4H-1,2,4-benzothiadiazine 1,1-dioxides
J. Med. Chem, 46: 3342-3353, 2003

- N. Lambot, P. Lebrun, N. Cirelli, A.-M. Vanbellinghen, J. Delogne-Desnoeck, G. Graff and S. Meuris
Colloidal effect of albumin on the placental lactogen and chorionic gonadotrophin releases from human term placental explants
Biochem. Biophys. Res. Commun., 315: 342-348, 2004

- B. Becker, N. Morel, A.-M. Vanbellinghen and P. Lebrun
Blockade of calcium entry in smooth muscle cells by the antidepressant imipramine.
Biochem. Pharmacol., 68:833-842, 2004

- M.-H. Antoine, D. Gall, S.N. Schiffmann and P. Lebrun
Tricyclic antidepressant imipramine reduces the insulin secretory rate in islet cells of Wistar albino rats through a calcium antagonistic action
Diabetologia, 47: 909-916, 2004

- T. Tagmose, S. C. Schou, J.P. Mogensen, F.E. Nielsen, P.O.G. Arkhammar, P. Wahl, B. S. Hansen, A. Worsaae, H. C. M. Boonen, M.-H. Antoine, P. Lebrun, and J. Bondo Hansen
Arylcyanoguanidines as activators of Kir6.2/SUR1 KATP channels and inhibitors of insulin release
J. Med. Chem., 47: 3202-3211, 2004

- S. Sebille, P. de Tullio, B. Becker, M.-H. Antoine, S. Boverie, B. Pirotte, and P. Lebrun
4,6-Disubstituted 2,2-dimethylchromans structurally related to the KATP channel opener cromakalim: design, synthesis and effect on insulin release and vascular tone.
J. Med. Chem., 48: 614-621, 2005

- S.C. Schou, H.C. Hansen, T. M. Tagmose, H. C. M. Boonen, A. Worsaae, M. Drabowski, P. Wahl, P.O.G. Arkhammar, T. Bodvarsdottir, M.-H. Antoine, P. Lebrun and J. Bondo Hansen
Synthesis and pharmacological evaluation of 4H-1,4-benzothiazine-2-carbonitrile 1,1-dioxide and N-(2-cyanomethylsulfonylphenyl)acylamide
derivatives as potential activators of ATP sensitive potassium channels.
Bioorg. Med. Chem., 13: 141-155, 2005

- S. Boverie, M.-H. Antoine, F. Somers, B. Becker, S. Sebille, R. Ouedraogo,
S. Counerotte, B. Pirotte, P. Lebrun, and P. de Tullio
Effect on KATP channel activation properties and tissue selectivity of the nature of the substituent in the 7-and the 3-position of 4H-1,2,4-benzothiadiazine 1,1-dioxides.
J. Med. Chem., 48: 3492-3503, 2005

- P. de Tullio, S. Boverie, B. Becker, , M.-H. Antoine, Q.-A. Nguyen, P. Francotte, S. Counerotte, S. Sebille, B. Pirotte, and P. Lebrun
3- Alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides as ATP-sensitive potassium channel openers: effect of 6,7-disubstitution on potency and tissue selectivity.
J. Med. Chem., 48: 4990-5000, 2005

- N. Lambot, P. Lebrun, C. Delporte, C. De Vriese, J. Delogne-Desnoeck, A.-M. Van Bellinghen, G. Graff and S. Meuris
Effect of IPs, cAMP, and cGMP on the hPL and hCG secretion from human term placenta.
Mol. Cell. Endocrinol., 243:80-85, 2005

- S. Khelili, P. Lebrun, P. de Tullio, and B. Pirotte
Synthesis and pharmacological evaluation of some N-arylsulfonyl- N-methyl-N'-(2,2-dimethyl-2H-1-benzopyran-4-yl)ureas structurally related to cromakalim
Bioorg. Med. Chem., 14 :3530-3534, 2006

N. Lambot, P. Lybaert, A. Boom, J. Delogne-Desnoeck, A.M. Vanbellinghen, G. Graff, P. Lebrun and S. Meuris
Evidence for a clathrin-mediated recycling of albumin in human term plac
Biol Reprod., 74:90-97, 2006

S. Sebille, D. Gall, P. de Tullio, X. Florence, P. Lebrun and B. Pirotte
Design, synthesis, and pharmacological evaluation of R/S-3,4-dihydro-2,2-dimethyl-6-halo-4-(phenylaminocarbonylamino)-2H-1-benzopyrans: toward tissue-selective pancreatic □-cell KATP channel openers structurally related to (□)-cromakalim
J. Med. Chem., 49 :4690-4697, 2006

- P. de Tullio, L. Dupont, P. Francotte, S. Counerotte, P. Lebrun and B. Pirotte
Three-dimensional quantitative structure-activity relationships of ATP-sensitive potassium (KATP) channel openers belonging to the 3-alkylamino-4H-1,2,4-benzo-and 3-alkylamino-4H-1,2,4-pyridothiadiazine 1,1-dioxide families.
J. Med. Chem., 49:6779-6788, 2006

- P. Lebrun, B. Becker, N. Morel, P. Ghisdal, M.-H. Antoine, P. de Tullio and B. Pirotte
KATP channel openers : Tissue selectivity of original 3-alkylaminopyrido-and 3-alkylaminobenzothiadiazine 1,1 dioxides
Biochem. Pharmacol.
In press

- S. Khelili, M. Bouhadja, S. Abdelaziz, N. Mechouch, Y. Mohamed, P. Lebrun and B. Pirotte
Synthesis and activity on rat aorta rings and rat pancreatic □-cells of ring-opened analogues of benzopyran-type potassium channel activators
Submitted

- S. Sebille, P. de Tullio, X. Florence, B. Becker, M.-H. Antoine, Ç. Michaux, J. Wouters, B. Pirotte and P. Lebrun
New R/S-3,4-dihydro-2,2-dimethyl-6-halo-4-(phenylaminothiocarbonylamino)-2H-1-benzopyrans structurally related to (□)-cromakalim as tissue-selective pancreatic B-cell KATP channel openers
Submitted

- P. Lybaert, A.M. Vanbellinghen, M. Petein, S. Meuris and P. Lebrun
KATP channel subunits expression in the epididymal epithelium of several mammalian species
Submitted

REVIEW ARTICLES CHAPTERS IN WORKS AND REFERENCES AND CONGRESS PROCEEDINGS

- W.J. Malaisse, Ç. Hubinont, P. Lebrun, A. Herchuelz, E. Couturier, M. Deleers, F. Malaisse-Lagae and A. Sener.
Mode of action of hypoglycaemic sulfonylureas in the pancreatic B-cell : coinciding and conflicting views.
In : Clinical and pharmacological activities of sulfonylurea drugs.
Serrâno-Rios, M. and Krall, L.P. (eds).
Excerpta Medica, Amsterdam p. 24-38, 1983.

- A. Herchuelz and P. Lebrun.
The mechanisms of nutrient-induced insulin release.
Medicographia : 6, p. 5-7, 1984.

- W.J. Malaisse, P. Lebrun and A. Herchuelz.
Calcium regulation of insulin release.
In : Calcium and Cell Physiology. Marmé D. (éd).
Springer Verlag Berlin-Heidelberg, p. 298-310, 1985.

- P. Lebrun.
Pancreatic B-cell electrical activity : chaotic and irregular bursting pattern.
In : Chaos in Biological Systems.
Degn, H; Holden, A.V. and Olsen, L.F. (Eds).
Nato ASI Series (Life Sciences vol. 138).
Plenum Press New York, p. 167-171, 1987.

- P. Lebrun.
Les agents bloquant les canaux calciques : bilan et perspectives.
Rev. Méd. Brux. 9 : 280-289, 1988.

- W.J. Malaisse and P. Lebrun.
Mechanisms of sulfonylurea-induced insulin release.
Diabetes care : 13, p. 9-17, 1990.

- P. Lebrun, B. Polliotti, C. Robyn and S. Meuris.
Extracellular Na+ removal stimulates chorionic gonadotropin and placental lactogen release by human placental explants.
In : Sodium-calcium exchange.
M.P. Blaustein, R. Dipolo and J.P. Reeves (eds)
Ann. N.Y. Acad. Sci. : 639, p. 663-664, 1991.

- P. Lebrun, M.-H. Antoine and A. Herchuelz.
Minireview : K+ channel openers and insulin release.
Life Sciences : 51, p. 795-806, 1992.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn.
Calcium influx similarly stimulates the release of chorionic gonadotrophin and placental lactogen from human placental explants.
In : Trophoblast Research, Vol. 6 : 189-198, 1992.

- P. Lebrun.
Flux cationiques dans les cellules B des îlots pancréatiques et investigations pharmacologiques.
Revue Française d'Endocrinologie Clinique, nutrition et métabolisme, 34 : 241-254, 1993.

- P. Lebrun.
Contribution à l'étude du mode d'action des activateurs des canaux potassiques.
Bulletin et Mémoires de l'Académie Royale de Médecine de Belgique 148 : 108-114, 1993.

- P. Lebrun.
Flux cationiques transmembranaires et processus insulinosécrétoire.
Journées de Diabétologie, Hôtel-Dieu.
Medecine-Sciences, Flammarion 47-60, 1994.

- A. Herchuelz, F. Van Eylen et P. Lebrun.
L'échange Na/Ca.
Médecine-Sciences 11 : 232-238, 1995.

- B. Pirotte, J. Fontaine et P. Lebrun.
Nouveaux activateurs des canaux potassiques : conception, pharmacologie et perspectives thérapeutiques.
J. Pharm. Belg. 50 : 167-178, 1995.

- B. Pirotte, J. Fontaine and P. Lebrun.
Recent advances in the chemistry of potassium channel openers.
Curr. Medicinal Chem. 2 : 573-582, 1995.

- B. Pirotte, P. de Tullio and P. Lebrun.
Recent advances in drugs acting as tissue selective potassium channel openers.
Current drugs 1 : 1-4, 1996.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Effects of Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides on Na-Ca exchange and ionic fluxes in rat pancreatic B cells.
In : Sodium-calcium exchange, D.W. Hilgemann, K.D. Philipson and G. Vassort (eds), Ann. NY Acad. Sci. 779, p 288-289, 1996.

- S. Meuris, A.M. Nagy, J. Delogne-Desnoeck, P. Lebrun and E. Jauniaux.
Human chorionic gonadotrophin early pregnancy levels are more closely related to changes in -subunit trophoblast production than to variations in -subunit production.
In : Trophoblast Research 10 : 353-362, 1997.

- M.-H. Antoine, P. Lebrun and A. Herchuelz.
Cell culture conditions influence glucose-induced [Ca2+]i responses in isolated rat pancreatic B cells.
In : Physiology and pathophysiology of the islets of Langerhans. B. Soria (ed.).
Advances in Experimental Medicine and Biology 426 : 227-230, 1997.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, A. Herchuelz, P. de Tullio, J. Delarge and B. Pirotte.
Pyridothiadiazines as potent inhibitors of glucose-induced insulin release.
In : Physiology and pathophysiology of the islets of Langerhans. B. Soria (ed.).
Advances in Experimental Medicine and Biology 426 : 145-148, 1997.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides inhibit Na/Ca exchange in pancreatic B cells.
In : Physiology and pathophysiology of the islets of Langerhans. B. Soria (ed.).
Advances in Experimental Medicine and Biology 426 : 223-225, 1997.

- P. Lebrun
Les médicaments prescrits au cabinet dentaire.
Le point 127 : 13-20, 1997.

- S. Khelili, Q.-A. Nguyen, P. Lebrun, J. Delarge and B. Pirotte.
Synthesis and pharmacological evaluation of KATP-channel openers related to cromakalim : Introduction of arylsulphonylurea moieties.
Pharm. Pharmacol. Commun. 5 : 189-193, 1999.

- P. de Tullio, S. Khelili, R. Ouedraogo, F. Somers, S. Boverie, L. Dupont, J. Fontaine, M.-H. Antoine, J. Delarge, P. Lebrun and B. Pirotte.
3-Alkylamino-pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxides as potent KATP-channel activators : Structural study and influence of stereochemistry.
Pharm. Pharmacol. Commun. 5 : 195-198, 1999.

- F. Somers, P. de Tullio, S. Boverie, J.M. Dogné, X. De Leval, M.-H. Antoine, P. Lebrun and B. Pirotte.
Synthesis and biological effects of new 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides on insulin secreting cells.
Pharm. Pharmacol. Commun 6 : 89-95, 2000.

- R. Ouedraogo, J. Fontaine, M.-H. Antoine, B. Pirotte and P. Lebrun.
Effects of 3-alkylamino-7-chloro-4H-pyrido[2,3-e]-1,2,4-thiadiazine 1,1-dioxides on smooth muscle contractile activity.
Pharm. Pharmacol. Commun 6 : 97-100, 2000.

- S. Boverie, M.-H. Antoine, P. de Tullio, F. Somers, B. Becker, S. Sebille, P. Lebrun and B. Pirotte.
Effect on insulin release of compounds structurally related to the potassium-channel opener 7-chloro-3-isopropylamino-4H-1,2,4-benzothiadiazine 1,1-dioxide (BPDZ 73) : introduction of heteroatoms on the 3-alkylamino side chain of the benzothiadiazine 1,1-dioxide ring.
J. Pharm. Pharmacol. 53 : 973-980, 2001.

- S. Sebille, P. de Tullio, S. Boverie, M.-H. Antoine, P. Lebrun and B. Pirotte.
Recent developments in the chemistry of potassium channel activators: the cromakalim analogues
Curr. Medicinal Chem., 11: 1213-1222, 2004

- B. Pirotte, P. de Tullio, M.-H. Antoine, S. Sebille, X. Florence and P. Lebrun
New insights into the development of ATP-sensitive potassium channel openers.
Expert Opin. Ther. Patents 15: 497-504, 2005

- P. de Tullio, P. Lebrun, X. Florence, M.-H. Antoine, P. Francotte and B. Pirotte
Selective pancreatic ATP-sensitive potassium channel openers for the treatment of glucose homeostasis disorders
Drug Future 31: 991-1001, 2006

ABSTRACTS AND COMMUNICATIONS

- A. Herchuelz, N. Thonnart, P. Lebrun, A.R. Carpinelli, A. Sener and W.J. Malaisse.
Calcium fluxes in pancreatic islets : the role of membrane depolarization and of potassium conductance.
Groupe de contact FRSM (Bruxelles).
Comm. 17e réunion du groupe de contact "Pancreas endocrine" du FRSM, Bruxelles 24.11.1979.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Calcium fluxes in the process of glucose-induced insulin release.
Comm. Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
Louvain en Woluwe, 7.6.1980.

- A. Herchuelz, P. Lebrun and N. Thonnart.
K+ conductance and glucose-induced calcium fluxes in pancreatic islets.
Comm. 16th Annual Meeting of the European Association for the Study of Diabetes, september 24-27, 1980. Athènes, Grèce.
Diabetologia 19: 283, 1980, Abstr. n° 175.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Diphenylhydantoin inhibits calcium fluxes and insulin release in pancreatic islets.
Groupe de contact FRSM (Bruxelles) 1980, vol. 2, pp.979-980.
Comm. 18e réunion du Groupe de contact "Pancreas endocrine" du FRSM, Liège (Belgique), 22.11.1980.

- P. Lebrun, W.J. Malaisse et A. Herchuelz.
Rôle de la calmoduline dans le processus insulinosécrétoire.
Comm. réunion sem. d'automne de l'Alfediam, Paris, France, 25.10.1980.
Diabète et Métabolisme 6: 301, 1980.

- P. Lebrun, W.J. Malaisse et A. Herchuelz.
Le cobalt et le vérapamil inhibent l'efflux de potassium des îlots de Langerhans.
Comm. réunion sem. de printemps de l'Alfediam, Lille, France, mars 1981.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Ca2+-independent alteration by Ca2+ antagonists of K+ conductance in pancreatic islets.
VIII International Congress of Pharmacology, July 19-24, 1981, Tokyo, Japan. Abstract n° 1642.
Communication Ibidem Tokyo 1981.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Inhibition by diphenylhydantoin of Ca2+ inflow in pancreatic islet cells.
VIII International Congress of Pharmacology, July 19-24, 1981, Tokyo, Japan. Abstract n° 274.
Communication Ibidem Tokyo 1981.

- A. Herchuelz and P. Lebrun.
Glucose stimulates Ca2+ inflow into the B-cell through voltage-sensitive and insensitive Ca2+ channels.
Comm. 17th Annual Meeting of the European Association for the Study of Diabetes,
Amsterdam (The Netherlands), 15-18, september 1981.
Diabetologia 1981, 21, 282, Abstr. n° 223.

- P. Lebrun, A.R. Carpinelli and A. Herchuelz.
Paradoxical augmentation by glucose of 86Rb outflow from pancreatic islets.
Comm. 17th Annual Meeting of the European Association for the Study of Diabetes,
Amsterdam (The Netherlands), 15-18, september 1981.
Diabetogogia 1981, 21, 296, Abstr. n° 301.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Nutrient-induced intracellular redistribution of calcium in rat pancreatic islets.
Comm. Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques, Bruxelles, U.L.B., 21.11.1981.
Arch. Int. Physiol. Biochim. 90 P4 1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Sensitivity to Verapamil of gliclazide-stimulated Ca2+ influx into the pancreatic B-cell.
Comm. 19e réunion du Groupe de contact "Pancréas endocrine" du F.R.S.M.,
Bruxelles 28.11.1981, V.U.B.
Groupe de contact F.R.S.M. : Sciences Fondamentales, p. 496, 1981.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
The effect of glucose on the Ca2+ activated K+ permeability in the pancreatic B-cell.
Comm. réunion commune des Sociétés Belges de Biochimie, de Biophysique et de
Physiologie et Pharmacologie Fondamentales et Cliniques.
Bruxelles, U.C.L., 20.02.1982.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Intracellular movement of Ca2+ in the process of nutrient-induced insulin release from the pancreatic B-cell.
Comm. 64th. Annual Meeting of the Endocrine Society, San Francisco (U.S.A.) 16-18 june 1982. Abstr. n° 723.

- W.J. Malaisse, F. Malaisse-Lagae, P. Lebrun, A. Herchuelz, V. Leclercq-Meyer and A. Sener.
Metabolic response of pancreatic islets to the anomers of D-mannose.
Comm. 18th. Annual Meeting of the European Association for the Study of Diabetes.
Budapest (Hungary), 1-4 september 1982.
Diabetologia 23: 185, 1982, Abstr. n° 198.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Influence of intracellular pH on Ca2+ fluxes in the pancreatic B-cell.
Comm. 18th Annual Meeting of the European Association for the Study of Diabetes.
Budapest (Hungary), 1-4 september 1982.
Diabetologia 23: 173, 1982, Abstr. n° 132.

- A. Herchuelz and P. Lebrun.
Sensitivity to verapamil of gliclazide-stimulated Ca2+ influx into the pancreatic B-cell.
Diabetes 31 suppl. 2, 114 A, 1982, Abstr. n° 552.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Effect of aminooxyacetate upon ionic fluxes induced by nutrient secretagogues in the pancreatic B-cell.
Comm. 20e réunion du Groupe de Contact "Pancreas endocrine" du F.R.S.M.
Leuven, K.U.L. 27.11.1982.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Inhibition of the Na+-K+ ATPase and the stimulatory effect of glucose on 86Rb efflux in the pancreatic B-cell.
Comm. 20e réunion du Groupe de Contact "Pancreas endocrine" du F.R.S.M.
Leuven, K.U.L., 27.11.1982.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Arginine-stimulated calcium-inflow in islet cells : independency on K+ conductance and resistance to verapamil.
Comm. Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
Leuven, K.U.L., 20.11.1982.
Arch. Int. Physiol. & Bioch. : 90, P.99, 1982.

- M. Deleers, P. Lebrun and W.J. Malaisse.
Glucose increases CO3H- influx and pH in pancreatic islet cells.
Comm. 15th. FEBS Meeting, Brussels (Belgium), 24-29 july 1983, Abstr. S-04 FR-013.

- P. Lebrun, I. Atwater, W.J. Malaisse and A. Herchuelz.
Resistance to apamin of the Ca2+-activated K+ permeability in the pancreatic B-cell.
Comm. 15th. FEBS Meeting Brussels (Belgium), 24-29 july 1983, Abstr. S-03 MO-078.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Effect of aminooxyacetate upon ionic movements induced by nutrient secretagogues in islet cells.
Comm. 19th. Annual Meeting of the European Association for the Study of Diabetes, Oslo (Norway), 14-17 september 1983.
Diabetologia 25: 163, 1983, Abstr. n° 168.

- R. Gomis, P. Lebrun, A. Herchuelz, F. Malaisse-Lagae, A. Sener and W.J. Malaisse.
Significance of transglutaminase-mediated crosslinking of proteins in insulin release. Comm. 19th. Annual Meeting of the European Association for the Study of Diabetes. Oslo (Norway), 14-17 september 1983.
Diabetologia 25: 157, 1983, Abstr. n° 134.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Dissociated effect of glucose on Ca2+-activited K+ permeability and Na+-K+ pump in islet cells.
43th. Annual Meeting of the American Diabetic Association.
San Antonio, june 1983, U.S.A.
Diabetes 32, suppl. 1, 142A Abstr. n° 543.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Do hypoglycemic sulfonylureas inhibit Ca2+-sensitive K+ permeability and/or Na+, K+ ATPase activity in pancreatic islets ?
Comm. : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
Brussels, V.U.B., 18.02.1984.

- P. Lebrun, I. Atwater, L. Rosario, W.J. Malaisse and A. Herchuelz.
Effect of methylamine on insulin release and electrical activity from pancreatic islet cells.
Comm. : IUPHAR 9th intern. Congress of Pharmacology, London U.K., 29 July-3 August 1984, Abstr. 296.

- A. Herchuelz, P. Lebrun and W.J. Malaisse.
Do hypoglycemic sulfonylureas inhibit Na+, K+-ATPase in pancreatic islets ? Comm. : IUPHAR 9th Intern. Congress of Pharmacology, London U.K., 29 July - 3 August 1984, Abstr. 293.

- P. Lebrun, W.J. Malaisse and A. Herchuelz.
Do hypoglycemic sulfonylureas inhibit Ca2+-sensitive K+ permeabilility in pancreatic islets ?
44th Annual Meeting of the American Diabetic Association, Las Vegas, USA, June 1984.
Diabetes : 32, suppl. 1, 142 A, 1984.

- E. Van Ganse, M. Juvent, P. Lebrun and A. Herchuelz.
Participation of Na/H exchange in the process of glucose-induced changes in K+ and Ca2+ fluxes in pancreatic islets.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
Louvain en Woluwe, 16.02.1985.

- P. Lebrun and I. Atwater.
Effect of dihydropyridine, BAY K 8644, on pancreatic B-cell electrical activity.
Comm : 45th Annual Meeting of the American Diabetic Association, Baltimore, USA, june 1985.
Diabetes : 34, suppl. 1, 94 A, 1985.

- I. Atwater, J. Rinzel, P. Lebrun and T. Chay.
Prediction of the glucose-induced changes in membrane ionic permeability and cytosolic Ca2+ by a mathematical model.
Comm : XII Congress of the International Diabetes Federation.
Madrid, Spain, September 1985.
In : Diabetes Research and Clinical Practice suppl 1 : S27, 1985

- J. Fontaine and P. Lebrun.
Effects of neurotensin on the isolated mouse distal colon.
Comm : Joint Meeting of the belgian, dutch and german pharmacological and toxicological societies.
Aachen, The Netherlands, 23-26 september 1985.
Naunyn-Schmiedeberg's Archives of Pharmacology : 330, 207/R.51,1985.

- P. Lebrun and I. Atwater.
Effect of dihydropyridine BAY K 8644 on pancreatic B-cell.
Comm : International workshop on Biophysics of the pancreatic B-cell.
Alicante, Spain, September 30 - October 1, 1985.

- I. Atwater, J. Rinzel, P. Lebrun and T. Chay.
Prediction of the glucose-induced changes in membrane ionic permeability and cytosolic Ca2+ by a mathematical model.
Comm : International workshop on Biophysics of the pancreatic B-cell.
Alicante, Spain, September 30 - october 1, 1985.

- P. Lebrun.
Dihydropyridine calcium agonist and antagonist effects on mouse pancreatic B-cell electrical activity.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
Gent 19.04.1986.

- P. Lebrun and J. Fontaine.
Pharmacological effects of BAY K 8644 on the mouse distal colon in vitro.
Comm : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques.
Leuven 22.11.1986.

- A. Herchuelz and P. Lebrun.
Effect of maitotoxin on insulin release and cationic fluxes in rat pancreatic islets.
Comm : Xth International Congress of Pharmacology.
Sydney, Australia, 23-28 August, 1987 Abstr. n° 014.

- V. Devreux, A. Herchuelz and P. Lebrun.
Pinacidil and diazoxide inhibit insulin release by increasing Ca2+ outflow from pancreatic B-cells.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
UIA, Wilrijk, 17.12.1988.

- J. Fontaine and P. Lebrun.
Contractile effects of substance P and other tachykinins on the isolated mouse distal colon.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
UIA, Wilrijk, 1 7.12.1988.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn.
Stimulatory effects of glucose and calcium on the release of chorionic gonadotropin and placental lactogen by human placental explants.
Trophoblast Research :
Comm : 11th Rochester trophoblast conference with the European Placenta Group.

Rochester, NY (USA), 9-12 october 1988.

- P. Lebrun, V. Devreux and A. Herchuelz.
Effects of K+ channel openers on ionic and secretory events in pancreatic B-cells.
Comm : First European Symposium on calcium binding proteins in normal and transformed cells.
Brussels, 20-22 april 1989. Abstr. N° H 11.

- P. Lebrun, V. Devreux and A. Herchuelz.
Pinacidil and diazoxide inhibit insulin release by increasing Ca2+ outflow from pancreatic B-cells.
Comm : "K+ channels in 1989 : Function, Regulation and Pharmacology".
Paris (France), 23.1.1989.

- A. Herchuelz, V. Devreux and P. Lebrun.
Similarities between the effects of pinacidil and diazoxide on pancreatic islet cells.
Comm : IV World Conference on Clinical Pharmacology and Therapeutics.
Mannheim-Heidelberg (F.R.G.), 23-28 july 1989.
Europ. J. Clin. Pharmacol. : 36 suppl 1989 Abstr. pp 09.14,A 235.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn.
Effects of extracellular calcium on chorionic gonadotropin and placental lactogen releases by human placental explants.
Comm : First European Symposium on calcium binding proteins in normal and transformed cells.
Brussels, 20-22 April 1989. Abstr. n°H 5.

- P.O. Plasman, A. Herchuelz and P. Lebrun.
Dihydropyridine-sensitive but nickel-resistant Ca2+ influx into pancreatic islets.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
RUG, Gent, 8 June 1989.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn
Effect of extracellular calcium and potassium depolarization on the chorionic gonadotropin and placental lactogen releases by human placental explants.
Comm : III European placenta group. Dourdan (France)
27-30 sept. 1989
Placenta : 10 p 523, 1989.

- M.-H. Antoine, Z.Y. Fang, J. Fontaine, G. Berkenboom, A. Herchuelz and P. Lebrun
Hypoglycaemic suifonylureas antagonize the effects of cromakalim and pinacidil on 86Rb fluxes and contractile activity in rat aorta.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
ULB, Brussels 18-11-1989.

- P.-0. Plasman, P. Lebrun and A. Herchuelz.
Sodium/calcium exchange in pancreatic islet cells : Role and modulation.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques. ULB, Brussels 18-11-1989.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn.
In vitro modulation of the chorionic gonadotrophin and placental lactogen releases by extracellular calcium and depolarizing potassium concentrations in placental explants.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques. ULB, Brussels 18-11-1989.
Arch. Int. Physiol. Bioch. 98 P6, 1990.

- P.-0. Plasman, A. Herchuelz and P. Lebrun.
Dual effect of 1,4-dihydropyridines on Ca2+ inflow into rat pancreatic islets.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques. RUG Gent 17-2-1990.

- W.J. Malaisse, P. Lebrun and A. Sener.
Metabolic, ionic and functional responses of pancreatic islets to ketone bodies.
Comm : 72nd Annual meeting of the Endocrine Society. Atlanta (USA) 20-23 june 1990. Abstr. n° 73.

- B. Polliotti, S. Meuris, P. Lebrun and C. Robyn.
Calcium influx stimulates chorionic gonadotropin and placental lactogen release by human placental explants.
Comm : 72nd Annual meeting of the Endocrine Society. Atlanta (USA) 20-23 june 1990. Abstr. n° 1045.

- J. Fontaine and P. Lebrun.
Relaxation response to pinacidil and diazoxide in the mouse isolated distal colon.
Comm : XI th International Congress of Pharmacology.
Amsterdam (The Netherlands) 1-6 july 1990.
Europ. J. Pharmacol. 183 (6) p 2430 PfR 372.

- M.-H. Antoine, A. Herchuelz and P. Lebrun.
Anoxia and glucose-sensitive 86Rb outflow from rat portal vein.
Comm : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques. RUG Gent 17-11-1990.

- P.-0. Plasman, P. Lebrun and A. Herchuelz.
Inhibition of Na/Ca exchange in pancreatic islet cells by 3',4'-dichlorobenzamil.
Comm : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques. RUG Gent 17-11-1990.

- S. Bordin, P. Lebrun, A. Herchuelz and A.C. Boschero.
Efeitos da glicose sobre a secreçao de insulina, efluxo do 45Ca e concentraçao citoplasmatica do Ca2+ (Ca2+i) em ilhotas de Langerhans de ratos adultos, mantidas ou nao em cultura.
Comm : V Ann Meeting of Brazilian Fed Soc Expl Biol, Caxambu MG, Brazil, Abstr : 210 p, 1990.

- P.O. Plasman, P. Lebrun and A. Herchuelz.
Characterization of the process of Na+/Ca2+ exchange in rat pancreatic islet cells.
Comm : 14th International Diabetes Federation Congress. Washington DC (USA) 24-28 june 1991.
Diabetes 40, suppl 1, 81A, 1991.

- B. Polliotti, P. Lebrun, C. Robyn and S. Meuris.
Is a process of sodium-calcium exchange involved in the human chorionic gonadotropin and placental lactogen release by placental explants ?
Abstr n° 116. Comm. 73rd annual meeting of the Endocrine Society Washington DC (USA) 1 9-22 June 1991.

- M.H. Antoine, A. Herchuelz and P. Lebrun.
Ionic and secretory response of pancreatic islet cells to minoxidil sulfate.
Comm : Post EASD Symposium on "Biochemistry and biophysics of insulin secretion".
Coleraine (Ireland) 15-18 September 1991.

- B. Polliotti, P. Lebrun, C. Robyn and S. Meuris.
The placental release of human chorionic gonadotropin and placental lactogen is stimulated in vitro by extracellular sodium removal.
Comm 4th meeting of the European Placenta Group, Gwatt (Switzerland) 22-26 september 1991.
Placenta 12, p 429, 1991.

- P. Lebrun, B. Polliotti, C. Robyn and S. Meuris.
Extracellular Na+ removal stimulates the chorionic gonadotropin and placental lactogen release by human placental explants.
Comm : Second International Conference on sodium-calcium exchange.
Baltimore (USA) 7-11 April 1991.

- M.-H. Antoine, G. Berkenboom, Z.Y. Fang, J. Fontaine, A. Herchuelz and P. Lebrun.
Mechanical and ionic response of rat aorta to diazoxide.
Comm : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques.
ULB Brussels 15 February 1992.

- P. Lebrun.
Electrophysiology of K+ channels and electrophysiological activities of K+ channel openers.
Comm symposium : "A new approach in the treatment of arterial hypertension".
Sodehotel Brussels 16 May 1992.

- B. Polliotti, S. Meuris, P. Lebrun, C. Robyn, M. Panigel and A. Nahmias.
Effect of a membrane depolarization on the human chorionic gonadotropin (hCG) and placental lactogen (hPL) release by placental explants.
Comm : 12th Rochester Trophoblast conference. Rochester, NY (USA) 1-4 october 1992.
Placenta 13 : A.52, 1992.

- F. Van Eylen, P. Lebrun and A. Herchuelz.
Blockade of Na/Ca exchange stimulates insulin release in pancreatic B cells.
Comm : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques St LUC Diepenbeek, November 14, 1992.

- M.H. Antoine, P. Lebrun and A. Herchuelz.
Sodium nitroprusside inhibits glucose-induced insulin release by activating ATP-sensitive K+ channels.
Comm : Groupe de contact "Pancreas Endocrine" FRSM.
ULB, Brussels, November 28, 1992,

- M.-H. Antoine, A. Herchuelz and P. Lebrun.
Sodium nitroprusside increases K+ permeability from pancreatic islet cells.
Comm : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques.
Université de Mons-Hainaut, February 13, 1993.

- P. Lebrun, B. Pirotte, M.-H. Antoine, P. de Tullio, J. Delarge and A. Herchuelz.
BPDZ 44 : a new and potent activator of ATP-sensitive K+ channels.
Comm. : 29th Annual Meeting of the European Association for the Study of Diabetes, Istambul (Turkey) September 6-9, 1993.
Diabetologia 36 (suppl. 1) A106, Abstr. n° 406, 1993.

- B. Pirotte, P. de Tuilio, P. Lebrun, M.-H. Antoine, B. Masereel, M. Schynts and J. Delarge.
Improved pancreatic K-ATP channel openers belonging to the pyridothiadiazine chemical class.
Comm. : 4e Forum Sciences Pharmaceutiques, Blankenberge 26-27 March 1993.
J. Pharm. Belg. 48, p 143, 1993.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Specificity of the inhibitory action of Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides on Na/Ca exchange in pancreatic B-cells.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 20, 1993.

- M.-H. Antoine, B. Pirotte, P. de Tullio, J. Delarge, A. Herchuelz and P. Lebrun.
A new and potent activator of ATP-sensitive K+ channels.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 20, 1993.

- M.-H. Antoine, P. Lebrun and A. Herchuelz.
Cell culture conditions influence glucose-induced (Ca2+)i responses in isolated rat pancreatic B-cells.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 20, 1993.
Pflügers Arch. 426 R6, 1994.

- P. Lebrun, M.-H. Antoine, A. Herchuelz, P. de Tullio, J. Delarge and B. Pirotte.
Pyridothiadiazines as potent inhibitors of glucose-induced insulin release.
Comm. : First International Meeting of the Pancreatic Islet Study Group.
Alicante (Spain), 25-28 November 1993.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides inhibit Na/Ca exchange in pancreatic B-cells.
Comm. : First International Meeting of the Pancreatic Islet Study Group.
Alicante (Spain), 25-28 November 1993.

- M.-H. Antoine, P. Lebrun and A. Herchuelz.
Cell culture conditions influence glucose-induced [Ca2+]i iresponses in isolated rat pancreatic B-cells.
Comm. : First International Meeting of the Pancreatic Islet Study Group.
Alicante (Spain), 25-28 November, 1993.

- P. de Tullio, B. Pirotte, P. Lebrun, M.-H. Antoine, J. Fontaine, B. Masereel. M. Schynts, L. Dupont and J. Delarge.
4H-1,2,4-pyridothiadiazine 1,1-dioxydes en tant que nouveaux activateurs du canal potassique ATP-dépendant.
Comm. : Journées Jeunes Chercheurs, Paris (France), 19 janvier 1994.
- P. de Tullio, B. Pirotte, L. Dupont, P. Lebrun, M.-H. Antoine, J. Fontaine, B. Masereel, M. Schynts and J. Delarge.
Synthesis of a series of 4H-1,2,4-pyridothiadiazine 1,1-dioxides and their evaluation as new potassium channel openers.
Comm. : 5e Forum Sciences Pharmaceutiques, Blankenberge 18-19 March 1994.
J. Pharm. Belg. 49 : 85, 1994.

- P. Lebrun.
Flux cationiques transmembranaires et processus insulinosécrétoire.
Comm. : XXXVièmes Journées annuelles de diabétologie de l'hôtel Dieu, Paris (France) 26-28 mai 1994.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Effects of Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides on Na/Ca exchange and ionic fluxes in rat pancreatic B-cells.
Comm. : XIIth International Congress of Pharmacology, IUPHAR, Montreal (Canada) 24-29 July 1994.
Can. J. Physiol. Pharmacol. 72 suppl.1 P 13 17-28, 1994.

- M.-H. Antoine, P. Lebrun and A. Herchuelz.
Effect of the lenght of cell culture on glucose-induced slow oscillations in [Ca2+]i in isolated rat pancreatic B-cells.

Comm. : 30th Annual Meeting of the European Association for the Study of Diabetes, Düsseldorf (Germany) September 28 - October 1, 1994.
Diabetologia 37 (suppl 1) A 106, abstr n° 410, 1994.

- P. Lebrun, P. de Tullio, M.-H. Antoine, A. Herchuelz, J. Delarge and B. Pirotte.
Pyridothiadiazines as potent activators of K+ATP channels and inhibitors of insulin secretion.
Comm. : 6th International Symposium. Pharmacological Control of Calcium and Potassium Homeostasis. Biological, Therapeutical and Clinical Aspects. Florence (Italy) October 4-6, 1994. Abstract p 31

- P. de Tullio, B. Pirotte, J. Fontaine, M.-H. Antoine, B. Masereel, J. Delarge and P. Lebrun.
Different tissue selectivity of pyrido- and benzothiadiazinedioxides, potassium channel openers related to diazoxide.
Comm. : 6th International Symposium. Pharmacological Control of Calcium and Potassium Homeostasis. Biological, Therapeutical and Clinical Aspects.Florence (Italy) October 4-6, 1994. Abstract p 47

- B. Pirotte, P. de Tullio, M.-H. Antoine, B. Masereel, J. Delarge and P. Lebrun.
Structure-activity relationships of pyridothiadiazines that activate the pancreatic KATP channel : a proposed pharmacophore for optimal binding site interaction.
Comm. : 6th International Symposium. Pharmacological Control of Calcium and Potassium Homeostasis. Biological, Therapeutical and Clinical Aspects.
Florence (Italy) October 4-6, 1994. Abstract p 31
- W.J. Malaisse and P. Lebrun.
Effects of formycin A on insulin output and 86Rb outflow in rat pancreatic islets.
Comm. : Pancreatic Beta-cell 1994. From Molecular Biology to Clinical Medicine.
Kyoto (Japan) 13-15 November 1994.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, A. Herchuelz, P. de Tullio, B. Masereel, J. Delarge and B. Pirotte.
Pyridothiadiazines inhibit glucose-induced insulin release by activating ATP-sensitive K+ channels.
Comm. : Contact Group "Endocrine pancreas" FRSM, ULB Brussels, December 10, 1994.

- B. Pirotte, P. de Tullio, M.-H. Antoine, B. Masereel, J. Delarge and P. Lebrun.
Selection of a new and potent activator of the pancreatic KATP channel based on structure-activity relationships in the pyridothiadiazinedioxide chemical class.
Comm. : Contact Group "Endocrine pancreas" FRSM, ULB Brussels, December 10, 1994.

- C. Kane, E.A. Harding, B. Pirotte, P. Lebrun and M.J. Dunne.
Modulation and mechanism of action of BPDZ 44 on ATP-sensitive potassium channels in isolated rat insulin-secreting cells.
Comm. : The Physiological Society. Newcastle upon Tyne (UK), November 9-10, 1994. J. Physiol. 482.P, 1995.

- P. Gavriil, P. Lebrun, A.M. Vanbellinghen, J. Delogne-Desnoeck, C. Robyn and S. Meuris.
Influence "in vivo et in vitro" de l'oxytocine et d'un 2-mimétique sur la sécrétion des hormones protidiques par le placenta humain.
Comm. : Société Royale Belge de Gynécologie et d'Obstétrique UCL, St Luc, Bruxelles, février 3-4, 1995.

- R. Ouedraogo, M.-H. Antoine, P. de Tullio, M. Dunne, C. Kane, B. Pirotte and P. Lebrun.
ATP-sensitive K+ channels and insulin release : effect of BPDZ 62.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, RUG, Gent, February 18, 1995.

- P. de Tullio, B. Pirotte, M.-H. Antoine, P. Lebrun, C. Maggetto, J. Fontaine, B. Masereel, and J. Delarge.
Pyrido- and benzothiadiazinedioxides structurally related to diazoxide : new activators of the pancreatic and the vascular KATP channels.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, RUG, Gent, February 18, 1995. Pflügers Arch. 430 R8, 1995.

- F. Van Eylen, P. Gourlet, A. Vandermeers, P. Lebrun and A. Herchuelz.
Effects of Phe-Met-Arg-Phe-NH2 (FMRFa)-related peptides on Na/Ca exchange and ionic fluxes in rat pancreatic B-cells.
Comm. : Third International Conference on Sodium-Calcium Exchange, Woods Hole (USA), April 23-26, 1995. Abstr. n° P37.

- R. Ouedraogo, B. Pirotte, M.-H. Antoine, P. de Tullio, B. Masereel, M. Dunne, Ç. Kane and P. Lebrun.
Les canaux potassiques ATP-dépendants et la sécrétion d'insuline : Effets du BPDZ 62.
Comm. : Journées Franco-Belges de Pharmacochimie, Lille (France), juin 1-2, 1995. Abstr. C8.

- S. Khelili, G. Leclerc, G. Faury, J. Verdetti, B. Pirotte, J. Fontaine et P. Lebrun.
Nouveaux agents vasodilatateurs apparentés au diazoxide portant une fonction sulfonylurée ayant un effet agoniste probable sur les canaux potassiques sensibles à l'ATP.
Comm. : Forum des Jeunes Chercheurs, Grenoble (France), juillet 4-7, 1995.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, A. Herchuelz, M. Dunne, C. Kane, P. de Tullio, J. Delarge and B. Pirotte.
ATP-sensitive K+ channels and insulin release : Effect of BPDZ 62.
Comm. : 31st Annual meeting of the European Association for the Study of Diabetes, Stockholm (Sweden), September 12-16, 1995.
Diabetologia 38 (suppl 1) : A 195, Abstr n° 755, 1995.

- F.C. Pereira, R. Ouedraogo, R.M. Seica, A.M. Silva, R.M. Barbosa, A.P. Cunha, R.M. Santos, P. Lebrun and L.M. Rosario.
Insulinotropic and Ca2+ mobilizing actions of a lupine seed extract on isolated rodent islets.
Comm. : 31 st Annual meeting of the European Association for the Study of Diabetes, Stockholm (Sweden), September 12-16, 1995. Diabetologia 38 (suppl 1) : A 109, Abstr n° 421, 1995.

- C. Kane, E.A. Harding, M.-H. Antoine, P. Lebrun, B. Pirotte, R.F.L. James, P.R.V. Johnson, K.J. Lindley and M.J. Dunne.
Activation of potassium channels in human and rodent B-cells by BPDZ 44 and BPDZ 62 : Mechanisms of action and effects in human neonatal nesidioblastosis.
Comm. : 31st Annual meeting of the European Association for the Study of Diabetes, Stockholm (Sweden), September 12-16, 1995. Diabetologia 38 (suppl 1) : A 124, Abstr. n° 480, 1995.

- J. Fontaine, F. Maranca, C. Vladut-Vasilan, B. Pirotte, M.-H. Antoine and P. Lebrun.
Pharmacological study of new potassium channel openers (3-and 4-substituted 4H-Pyrido[4,3-e]-1,2,4-thiadiazine 1,1 -dioxides) on pancreatic and vascular tissues.
Comm. : 1Oth Camerino-Noordwijkerhout symposium. Perspectives in receptor research. Camerino (Italy), September 10-14, 1995. Abstr. P57.

- P. Gavriil, S. Meuris, A.-M. Vanbellinghen, J. Delogne-Desnoeck, C. Robyn and P. Lebrun.
"in vivo et in vitro" assessment of the influence of ritodrine and oxytocin on the placental secretion of human chorionic gonadotropin and placental lactogen.
Comm. : VIth meeting of the european placenta group joint, meeting with the Rochester trophoblast conference, Spa (Belgium), September 20-23, 1995.
Placenta 1 6 : Abstr. A. 21, 1995.

- P. Lebrun, A.-M. Vanbellinghen, C. Robyn and S. Meuris.
Simultaneous measurement of 45Ca outflow and human placental lactogen release from placental explants.
Comm. : VIth meeting of the european placenta group joint, meeting with the Rochester trophoblast conference, Spa (Belgium), September 20-23, 1995. Placenta 16 : Abstr. A.41, 1995.

- M.-H. Antoine, R. Ouedraogo, A. Herchuelz and P. Lebrun.
Hydroxylamine, a NO donor, inhibits insulin release and activates K+ATP channels.
Comm. : Contact group Endocrine Pancreas FNRS, UCL, Louvain-La-Neuve, December 2, 1995.

- S. Khelili, B. Pirotte, P. de Tullio, P. Lebrun, R. Ouedraogo, M.-H. Antoine, Z.Y. Fang, J. Fontaine, B. Masereel and J. Delarge.
Pyrido [2,3-e]-1,2,4-thiadiazine1,1-dioxides : novel class of vasorelaxant drugs.
Comm. : 3è journée jeunes chercheurs, Paris (France), janvier 12, 1996.

- B. Pirotte, R. Ouedraogo, Z.Y. Fang, P. de Tullio, S. Khelili, J. Fontaine, P. Lebrun, L. Pochet, B. Masereel, L. Dupont and J. Delarge.
Les 3-alkylamino-2-methyl-2H-pyrido[4,3-e]-1,2,4-thiadiazine1,1-dioxydes en tant que nouveaux agents myorelachants.
Comm. : 3è journée jeunes chercheurs, Paris (France), janvier 12, 1996.

- R. Ouedraogo, P. Lebrun, A. Herchuelz and M.-H. Antoine.

NO donors and insulin release.
Comm. : Société Belge de Physiologie et de Pharmacologie fondamentales et cliniques, UIA, Antwerpen, February 9, 1996.
Pflügers Arch. 431 : R. 324, 1996.

- S. Meuris, A.-M. Nagy, J. Delogne-Desnoeck, P. Lebrun and E. Jauniaux.
Human chorionic gonadotrophin early pregnancy levels are more closely related to changes in -subunit trophoblast production than to variations in -subunit production.
Comm. : Gonadotropins and their receptors : structure, function and molecular forms, Paris (France), May 9-10, 1996. Abstr. P 14, 1996.

- B. Pirotte, S. Khelili, P. de Tullio, Z.Y. Fang, R. Ouedraogo, M.-H. Antoine, J. Fontaine, B. Masereel, D. Dewalque, J. Damas, L. Pochet, J. Delarge and P. Lebrun.
3-alkylamino-4H-pyrido[2,3-e]-1,2,4-thiadiazine 1,1-dioxides structurally related to both diazoxide and pinacidil : a new class of potassium channel openers.
Comm. : 6è forum des Sciences Pharmaceutiques, Blankenberge (Belgium), May 3-4, 1996.
J. Pharm. Belg. 51, 2, 117, 1996.

- P. de Tullio, B. Pirotte, R. Ouedraogo, L. Dupont, P. Lebrun, Z.Y. Fang, B. Masereel, J. Fontaine, M.-H. Antoine, P. Neven, L. Pochet and J. Delarge.
2-,3-and 4-substituted pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxides as ATP-sensitive potassium channel openers.
Comm. : 6è forum des Sciences Pharmaceutiques, Blankenberge (Belgium), May 3-4, 1996.
J. Pharm. Belg. 51, 2, 108, 1996.

- B. Pirotte, P. de Tullio, R. Ouedraogo, L. Dupont, Z.Y. Fang, J. Fontaine, M.-H. Antoine, B. Masereel, L. Pochet, J. Delarge and P. Lebrun.
Myorelaxant effects of 2-alkyl-substituted 2H-pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxides.
Comm. : XVI International Symposium on Medicinal Chemistry, Maestricht (The Netherlands), September 8-12, 1996.

- M.-H. Antoine, R. Ouedraogo, A. Herchuelz and P. Lebrun.
NO donors, ionic channels and insulin release.
Comm. : 32nd Annual Meeting of the European Association for the Study of Diabetes, Vienna (Austria), September 1-5, 1996. Diabetologia 39 (suppl. 1) : A113, Abstr. n°426, 1996.

- R. Ouedraogo, B. Pirotte, K.E. Cosgrove, C. Kane, M.J. Dunne, A. Herchuelz, P. Lebrun and M.-H. Antoine.
Verapamil inhibits ATP-sensitive K+ channel in pancreatic B-cells.
Comm. : Contact group "Endocrine Pancreas" FRSM, ULB Brussels, December 7, 1996.

- P. Lebrun, B. Pirotte and M.-H. Antoine.
Physiology, pharmacology of ATP-sensitive K+ channels and insulin release.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, Palais des Académies, Brussels, February 15, 1997.

- J. Fontaine, B. Pirotte and P. Lebrun.
Pharmacological analysis of ATP-dependent potassium channel openers on the vascular smooth muscle.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, Palais des Académies, Brussels, February 15, 1997.

- B. Pirotte et P. Lebrun.
Pharmacochimie de nouveaux activateurs de canaux potassiques.
Comm. : Séminaire de l'Ecole de Pharmacie, UCL, Bruxelles, 18 février 1997.

- P. Lebrun, B. Pirotte et M.H. Antoine.
Pharmacologie des canaux K+ ATP-dépendants des cellules B pancréatiques : nouveaux développements.
Comm. : Association Belge du Diabète, Château du Lac, Genval, 8 mars 1997.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, B. Pirotte, A. Herchuelz, K.E. Cosgrove, C. Kane and M.J. Dunne.
Verapamil : An inhibitor of ATP-sensitive K+ channels ?
Comm. : Fifth Workshop of the Islet Research European Network, Blaubeuren (Germany), April 18-20, 1997.

- R. Ouedraogo, F. Somers, P. de Tullio, M.-H. Antoine, P. Lebrun, B. Pirotte and J. Fontaine.
Pharmacological analysis of ATP-dependent potassium channels openers on vascular smooth muscle.
Comm. : 7th Forum of Pharmaceutical Sciences, Blankenberge, April 24-25, 1997.

- F. Somers, F. Rogister, R. Ouedraogo, P. Lebrun, P. de Tullio, J. Fontaine, M.-H. Antoine, L. Pochet, J.-M. Dogné, B. Masereel, J. Delarge and B. Pirotte.
2-Alkylamino-3H-quinazolin-4-ones structurally related to the arylthiadiazine class of potassium channel openers : design, synthesis and pharmacological evaluation.
Comm. : 7th Forum of Pharmaceutical Sciences, Blankenberge, April 24-25, 1997.

- P. Lebrun, M.-H. Antoine, R. Ouedraogo, B. Pirotte, K.E. Cosgrove, C. Kane and M.J. Dunne.
Verapamil, a phenylalkylamine Ca2+ channel blocker, inhibits ATP-sensitive K+ channels in insulin-secreting cells.
Comm. : XXXIII International Congress of Physiological Sciences, St. Petersburg (Russia), June 30-July 5, 1997; Abstr. P049.11.

- B. Pirotte, P. de Tullio, R. Ouedraogo, F. Somers, M.-H. Antoine, J. Fontaine, J. Delarge and P. Lebrun.
1,2,4-Pyridothiadiazine 1,1-dioxides as a new class of potassium channel openers : structural requirements leading to tissue selectivity.
Comm. : XXXIII International Congress of Physiological Sciences, St Petersburg (Russia), June 30-July 5, 1997; Abstr. P 049.17.

- L. Pochet, R. Ouedraogo, M.-H. Antoine, P. Lebrun and B. Masereel : Design, synthesis and preliminary evaluation of novel hypoglycemic cyanoguanidines and nitroethylenes.
Comm. : Contact group "Pancreas Endocrine", ULB, Brussels, December 13, 1997.

- Q.-A. Nguyen, R. Ouedraogo, L. Pochet, M.-H. Antoine, M.J. Dunne, B. Masereel and P. Lebrun.
Mechanism of action of glibenclamide isosteres.
Comm. : Contact group "Pancreas Endocrine", ULB, Brussels, December 13, 1997.

- F. Somers, R. Ouedraogo, P. de Tullio, P. Lebrun, M.-H. Antoine, J. Fontaine, J. Damas, J. Delarge and B. Pirotte.
Design and synthesis of novel quinazolinones structurally related to pyridothiadiazine-type potassium channel openers acting on pancreatic B-cells.
Comm. : Contact group "Pancreas Endocrine", ULB, Brussels, December 13, 1997.

- N. Cirelli, A. Moens, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen and S. Meuris.
Is apoptosis a placental event related to the onset of delivery ?
Comm. : SSF/SFEF winter meeting, London (UK), December 18-19, 1997.
J. Reprod. Fertil. Abstract Series 20 p 6, 1997.

- F. Somers, F. Rogister, R. Ouedraogo, P. Lebrun, P. de Tullio, J. Fontaine, M.-H. Antoine, L. Pochet, J.-M. Dogné, B. Masereel, J. Delarge and B. Pirotte.
Design, synthèse et évaluation pharmacologique de nouvelles 2-alkylamino-quinazoline-4-ones en tant qu'isostères de 3-alkylamino-4H-pyrido[4,3-e]-1,2,4-thiadiazine 1,1 dioxydes.
Comm. : Journées Franco-Belges de Pharmacochimie, ULB, Bruxelles, Mai 29-30. 1997; Abstr. B31.
J. Pharm. Belg. 53, 1, 56, 1998.

- B. Masereel, R. Ouedraogo, J.M. Dogné, M.-H. Antoine, P. de Tullio, B. Pirotte, L. Pochet, J. Delarge and P. Lebrun.
Design, synthesis and pharmacology of sulfonylcyanoguanidines and sulfonamidonitroethylenes as bioisosteres of hypoglycemic sulfonylureas.
Comm. : Journées Franco-Belges de Pharmacochimie, ULB, Bruxelles, Mai 29-30, 1997; Abstr. B33.
J. Pharm. Belg. 53, 1, 57-58, 1998.

- R. Ouedraogo, F. Somers, B. Pirotte, P. de Tullio, M.-H. Antoine, P. Lebrun and J. Fontaine.
Etude pharmacologique comparative de quelques 3-alkylamino-4H-1,2,4-benzo-et pyridothiadiazine 1,1-dioxydes, activateurs de canaux potassiques ATP-dépendants.
Comm. : Journées Franco-Belges de Pharmacochimie, ULB, Bruxelles, Mai 29-30, 1997; Abstr. B37.
J. Pharm. Belg. 53, 1, 61, 1998.

- F. Somers, R. Ouedraogo, P. Lebrun, P. de Tullio, J. Fontaine, M.-H. Antoine, J. Damas, J.-M. Dogné, J. Delarge and B. Pirotte.
Nouvelles 2-alkylamino-quinazoline-4-ones, synthèse et évaluation pharmacologique en tant qu'isostères potentiels de 3-alkylamino-4H-pyrido[4,3-e]-1,2,4-thiadiazine 1,1 dioxydes.
Comm. : 5è Journée Jeunes Chercheurs, Paris (France), 16 janvier 1998.

- N. Cirelli, A. Moens, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen, P. Lebrun and S. Meuris.
Placental apoptosis can be induced "in vitro".
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, UCL, Brussels, February 14, 1998.
Pflügers Archiv. 435 R 247, 1998.

- Q.-A. Nguyen, L. Pochet, R. Ouedraogo, M.J. Dunne, B. Masereel, P. Lebrun and M.-H. Antoine.
Insulinotropic effect of glibenclamide isosteres.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, UCL Brussels, February 14, 1998.
Fundam. Clin. Pharmacol. 12 p 308, 1998.

- F. Somers, R. Ouedraogo, P. de Tullio, M.-H. Antoine, J. Fontaine, J. Damas, J. Delarge, P. Lebrun and B. Pirotte.
New quinazolinones structurally related to diazoxide and pinacidil as potential KATP channel openers.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, UCL, Brussels, February 14, 1998.
Fundam. Clin. Pharmacol. 12 p 306, 1998.

- R. Ouedraogo, Q.-A. Nguyen, J. Fontaine, F. Somers, P. de Tullio, M.-H. Antoine, P. Lebrun and B. Pirotte.
Les arylthiadiazinedioxydes en tant qu'activateurs des canaux potassiques : étude pharmacologique des 3-alkylamino-2-méthyl-2H-pyrido[4,3-e]-1,2,4-thiadiazine 1,1 -dioxydes.
Comm. : 12ès Journées Franco-Belges de Pharmacochimie, Caen, France, mai 28-29, 1998. Abstr B 45.

- B. Pirotte, R. Ouedraogo, P. de Tullio, M.-H. Antoine, F. Somers, J. Fontaine, J. Delarge and P. Lebrun.
Les 3-alkylamino-4H-pyrido[2,3-e]-1,2,4-thiadiazine 1,1-dioxydes structuralement apparentés au diazoxide et au pinacidil : conception, synthèse et évaluation biologique.
Comm. : 12ès Journées Franco-Belges de Pharmacochimie, Caen, France, mai 28-29, 1998. Abstr B 50.

- P. de Tullio, S. Khelili, M. Fillet, R. Ouedraogo, L. Dupont, M.-H. Antoine, P. Lebrun, J. Fontaine, J. Delarge and B. Pirotte.
Résolutions énantiomériques et évaluations biologiques des isomères du BPDZ 42 et du BPDZ 44 : deux puissants activateurs du canal potassique sensible à l'ATP.
Comm. : 12ès Journées Franco-Belges de Pharmacochimie, Caen, France, mai 28-29, 1998. Abstr B 10.

- P. de Tullio, F. Somers, S. Boverie, L. Dupont, R. Ouedraogo, P. Lebrun, J. Fontaine, F. Lacan, J.-M. Dogné, J. Delarge and B. Pirotte.
Les 3-alkylamino-pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxydes en tant qu'activateurs des canaux KATP : détermination de la position de la liaison double du cycle thiadiazine.
Comm. : 12ès Journées Franco-Belges de Pharmacochimie, Caen, France, mai 28-29, 1998. Abstr C 9.

- S. Khelili, Q.-A. Nguyen, P. Lebrun, J. Delarge and B. Pirotte.
Synthèse et évaluation pharmacologique de nouvelles benzopyranes en tant qu'activateurs de canaux potassiques sensibles à l'ATP : Introduction d'un groupement arylsulfonylurée ou benzothiadiazinedioxyde en position 4.
Comm. : 12ès Journées Franco-Belges de Pharmacochimie, Caen, France, mai 28-29, 1998. Abstr C 14.

- P. de Tullio, F. Somers, S. Boverie, L. Dupont, S. Khelili, R. Ouedraogo, J. Fontaine, M.-H. Antoine, J. Delarge, P. Lebrun and B. Pirotte.
Les 3-alkylamino-pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxydes en tant qu'activateurs des canaux KATP : Etude structurale et influence de la stéréochimie.
Comm. : 12ès Journées Franco-Belges de Pharmacochimie, Caen, France, mai 28-29, 1998. Abstr JFB-3.

- P. de Tullio, F. Somers, S. Boverie, J. Delarge, P. Lebrun and B. Pirotte.
3-alkylamino-7-halogeno-4H-1,2,4-benzothiadiazine 1,1-dioxides as new potent KATP channels activators.
Comm. : 4th European Congress of Pharmaceutical Sciences, Milan (Italy), September 11-13, 1998. Eur. J. Pharmaceut. Sci 6, suppl 1, S34.

- S. Khelili, Q.-A. Nguyen, P. Lebrun, J. Delarge and B. Pirotte.
Synthesis and pharmacological evaluation of ATP-sensitive potassium channel openers related to

cromakalim : introduction of arylsulfonylurea or benzothiadiazinedioxide moieties.
Comm. : 9th FECHEM Conference on Heterocycles in Bio-Organic Chemistry. Aussois (France), August 30 - September 2, 1998.

- P. de Tullio, F. Somers, S. Boverie, J. Delarge, P. Lebrun and B. Pirotte.
Synthesis and biological evaluation of the 3-alkylamino-7-halogeno-4H-1,2,4-benzothiadiazine 1,1-dioxides : New potential KATP channels openers.
Comm. : XVth EFMC International Symposium on Medicinal Chemistry, Edinburgh (UK), September 6-10, 1998. Abstract : p 309.

- N. Cirelli, A. Moens, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen and S. Meuris.
Apoptosis in human term placentas : in vivo and in vitro observations.
Comm. : The 4th conference of the International Federation of Placental Association, Tokyo (Japan), October 1-3, 1998.
Placenta 19, A35, 1998.

- R. Ouedraogo, Q.-A. Nguyen, M.-H. Antoine, J. Fontaine, F. Somers, P. de Tullio, B. Pirotte and P. Lebrun.
Pharmacological study of original 3-alkylamino-2-methyl-2H-pyrido[4,3-e]-1,2,4-thiadiazine 1,1-dioxides.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, RUCA, Antwerpen, November 21, 1998.
Fundam. Clin. Pharmacol. 13 p 245, 1999.

- Q.-A. Nguyen, R. Ouedraogo, M.-H. Antoine, B. Pirotte, L. Pochet, M. Masereel and P. Lebrun.
In vivo et in vitro effect of new glibenclamide isosteres.
Comm. : Annual meeting of the FRSM Contact Group, Liège, December 12, 1998.

- S. Boverie, P. de Tullio, F. Somers, P. Lebrun and B. Pirotte.
Les 3-alkylsulfanyl-4H-1,2,4-benzothiadiazine 1,1-dioxides structuralement apparentés au diazoxide en tant qu'activateurs potentiels des canaux potassiques sensibles à l'ATP.
Comm. : 13ès Journées Franco-Belges de Pharmacochimie, Liège, Belgique, mai 27-28, 1999. Abstr B3.

- F. Somers, P. de Tullio, S. Boverie, J.M. Dogné, M.-H. Antoine, P. Lebrun, B. Pirotte.
Conception, synthèse et évaluation pharmacologique de nouveaux 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxydes en tant qu'activateurs potentiels des canaux potassiques ATP-dépendants.
Comm. : 13ès Journées Franco-Belges de Pharmacochimie, Liège, Belgique, mai 27-28, 1999. Abstr B23.

- R. Ouedraogo, J. Fontaine, M.-H. Antoine, B. Pirotte and P. Lebrun.
Synthèse et évaluation pharmacologique de 3-alkylamino-7-chloro-4H-pyrido[2,3-e]-1,2,4-thiadiazine 1,1-dioxides.
Comm. : 13ès Journées Franco-Belges de Pharmacochimie, Liège, Belgique, mai 27-28, 1999. Abstr B18.

- N. Cirelli, A. Moens, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.M. Vanbellinghen and S. Meuris.
Preservation of human placental explants : secretory characteristics and tissue viability.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, R.U.G., Gent, June 12, 1999.
Pflügers Archiv. 438, R29, 1999.
- S. Boverie, Q.-A. Nguyen, P. de Tullio, F. Somers, B. Pirotte and P. Lebrun.
Pharmacological evaluation of 3-alkylsulfanyl-4H-1,2,4-benzothiadiazine 1,1-dioxides structurally related to the KATP channel opener diazoxide.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, R.U.G., Gent, June 12, 1999.
Fundam. Clin. Pharmacol. 13, P605, 1999.

- F. Somers, P. de Tullio, S. Boverie, J.-M. Dogne, M.-H. Antoine, P. Lebrun and B. Pirotte.
New 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides as putative KATP channel openers : design, synthesis and pharmacological evaluation.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, R.U.G., Gent, June 12, 1999.
Fundam. Clin. Pharmacol. 13, P607, 1999.

- P. Lebrun, R. Ouedraogo, Q.-A. Nguyen, M.-H. Antoine, M.-J. Dunne, B. Pirotte and B. Masereel.
« In vivo » et « in vitro » effect of new glibenclamide isosteres.

Comm. : 2nd European Congress of Pharmacology, Budapest, Hungary, 3-7 July 1999. Fund. Clin. Pharmacol. 13 suppl 1, 381 S, 1999.

- B. Pirotte, P. de Tullio, T. Podona, O. Diouf, P. Morain, P. Lestage and P. Lebrun.
Pyrido- and benzothiadiazine dioxides related to diazoxide : structural requirements leading to a KATP channel activator or to an allosteric modulator of the AMPA receptors.
Comm. : 2nd European Congress of Pharmacology, Budapest, Hungary, July 3-7, 1999. Fund. Clin. Pharmacol. 13 suppl 1, 134 S, 1999.

- P. Lebrun, M.-H. Antoine, Q.-A. Nguyen and W.J. Malaisse.
Cationic and secretory response to D-glucose in depolarized and Ca2+-deprived islets exposed to diazoxide.
Comm. : 35th Annual Meeting of the European Association for the Study of Diabetes. Brussels, Belgium, September 28 - October 2, 1999. Diabetologia 42 suppl 1, A 134.

- F. Somers, P. de Tullio, R. Ouedraogo, M.-H. Antoine, S. Boverie, P. Lebrun and B. Pirotte.
New 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides and 2-alkylamino-3H-quinazolin-4-ones as putative KATP channel openers : influence of stereochemistry on biological activity.
Comm. : Société Royale de Chimie, « Chirality impact on drug design and development », UCB, Braine-L'Alleud, November 26, 1999.

- S. Boverie, P. de Tullio, R. Ouedraogo, Q.-A. Nguyen, F. Somers, J. Damas, P. Lebrun and B. Pirotte.
3-alkylsulfanyl- and 3-alkoxy-substituted benzothiadiazines structurally related to 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides as putative KATP channel openers.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, UCL, Brussels, November 20, 1999.

- F. Somers, R. Ouedraogo, P. de Tullio, M.-H. Antoine, S. Boverie, J. Fontaine, J. Damas, B. Pirotte and P. Lebrun.
Comparison between the effects of 3-aralkylamino-/3-cycloalkylalkylamino-substituted benzothiadiazine dioxides and their corresponding quinazolinone isosteres on different smooth muscle preparations.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, UCL, Brussels, November 20, 1999.

- F. Somers, S. Boverie, R. Ouedraogo, M.-H. Antoine, J.-M. Dogné, X. de Leval, P. Lebrun, B. Pirotte and P. de Tullio.
Nouveaux 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxydes : synthèse et évaluation pharmacologique en tant qu'inhibiteurs potentiels du processus insulino-sécrétoire.
Comm. : 7ème Journée Jeunes Chercheurs, Paris, France, janvier 28, 2000 ; Abstr. P36.

- S. Boverie, P. de Tullio, R. Ouedraogo, Q.-A. Nguyen, F. Somers, J. Damas, P. Lebrun and B. Pirotte.
Les 3-alkylsulfanyl- et 3-alkoxy-4H-1,2,4-benzothiadiazine 1,1-dioxydes structuralement apparentés aux 3-alkylamino-4H-1,2,4-benzothiadiazine 1-1-dioxydes en tant qu'activateurs potentiels des canaux potassiques sensibles à l'ATP.
Comm. : 7ème Journée Jeunes Chercheurs, Paris, France, janvier 28, 2000 ; Abstr. P7.

- N. Cirelli, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen and S. Meuris.
Serum albumin influences human chorionic gonadotrophin and human placental lactogen secretions from placental explants.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, March 4, 2000.
Pflügers Archiv. : 440, R6, 2000.

- S. Boverie, F. Somers, R. Ouedraogo, M.-H. Antoine, J.-M. Dogné, X. de Leval, P. de Tullio, B. Pirotte and P. Lebrun.
7-substituted alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides as new analogues of diazoxide : effects on the insulin releasing process in vitro.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, March 4, 2000.

- S. Boverie, M.-H. Antoine, P. de Tullio, F. Somers, P. Lebrun and B. Pirotte.
Synthèse et évaluation biologique de composés structuralement apparentés au 7-chloro-3-isopropylamino-4H-1,2,4-benzothiadiazine 1,1-dioxyde (BPDZ 73) : Introduction d'hétéroatomes au niveau de la chaîne latérale en position 3 du cycle benzothiadiazine 1,1-dioxyde.
Comm. : Journées Franco-Belges de Pharmacochimie, Lille, France, mai 25-26, 2000, Abstr. B11.

- S. Khelili, Q.-A. Nguyen, G. Faury, G. Leclerc, B. Pirotte and P. Lebrun.
Etude de quelques dérivés benzothiadiaziniques apparentés au diazoxide et aux thiazides en tant qu'activateurs de canaux potassiques.
Comm. : Journées Franco-Belges de Pharmacochimie, Lille, France, mai 25-26, 2000, Abstr. B26.

- F. Somers, S. Boverie, Q.-A. Nguyen, M.-H. Antoine, J.-M. Dogné, P. Lebrun, B. Pirotte and P. de Tullio.
3-Alkylamino-6,7-dichloro-4H-1,2,4-benzothiadiazine 1,1-dioxydes : synthèse et évaluation pharmacologique en tant qu'activateurs potentiels du canal potassique ATP-dépendant.
Comm. : Journées Franco-Belges de Pharmacochimie, Lille, France, mai 25-26, 2000, Abstr. B45.

- P. de Tullio, S. Boverie, Q.-A. Nguyen, J. Ouedraogo, F. Somers, S. Sebille, M.-H. Antoine, B. Becker, F. Nielsen, P. Arkhammar, J.B. Hansen, J. Delarge, P. Lebrun and B. Pirotte.
Les 3-R/S-(hydroxy-alkylamino)-4H-1,2,4-benzothiadiazine 1,1-dioxydes en tant qu'activateurs potentiels des canaux KATP : influence de la stéréochimie sur l'activité pharmacologique et la sélectivité tissulaire.
Comm. : Journées Franco-Belges de Pharmacochimie, Lille, France, mai 25-26, 2000, Abstr. B46.

- S. Boverie, B. Becker, F. Somers, P. de Tullio, D. Dewalque, M.-H. Antoine, P. Arkhammar, F.E. Nielsen, J.B. Hansen, J. Damas, J. Delarge, P. Lebrun and B. Pirotte.
Synthesis and biological evaluation of 3-alkylamino-7-chloro-4H-1,2,4-benzothiadiazine 1,1-dioxides as KATP channel openers structurally related to BPDZ 73.
Comm. : XVIth International Symposium on Medicinal Chemistry, Bologna, Italy, September 18-22, 2000. Abstr. PA-10.

- P. de Tullio, F. Somers, J. Ouedraogo, S. Boverie, M.-H. Antoine, B. Becker, F.E. Nielsen, P. Arkhammar, J.B. Hansen, J. Delarge, P. Lebrun and B. Pirotte.
7-substituted 3-isopropylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides as potent KATP channel openers : synthesis and biological in vitro evaluation.
Comm. : XVIth International Symposium on Medicinal Chemistry, Bologna, Italy, September 18-22, 2000. Abstr. PA-16.

- S. Boverie, M.-H. Antoine, B. Becker, P. de Tullio, F. Somers, S. Sebille, P. Lebrun and B. Pirotte.
Effect on the pancreatic endocrine system of 3-alkylamino-7-chloro-4H-1,2,4-benzothiadiazine 1,1-dioxides structurally related to diazoxide.
Comm. : 68th annual meeting Société de Physiologie, Liège, September 19-22, 2000.
Pflügers Archiv. : 439, R220, 2000.

- N. Cirelli, P. Lebrun, C. Gueuning, J. Delogne-Desnoeck, A.-M. Vanbellinghen, G. Graff and S. Meuris.
The albumin-mediated stimulation of human chorionic gonadotrophin and human placental lactogen secretions from placental explants is not dependent on extracellular calcium.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, K.U.L., Leuven, November 18, 2000.
Pflügers Archiv. 441, R106, 2001.

- B. Becker, M.-H. Antoine, Q.-A. Nguyen, B. Rigo, B. Pirotte and P. Lebrun.
A quinolinone derivative activating ATP-sensitive K+ channels.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, K.U.L., Leuven, November 18, 2000.

- S. Sebille, B. Becker, M.-H. Antoine, P. Arkhammar, J.B. Hansen, P. Lebrun and B. Pirotte.
Pharmacological evaluation of 4,6-disubstituted 2,2-dimethylchromans structurally related to the KATP channel opener cromakalim.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, K.U.L., Leuven, November 18, 2000.

- S. Boverie, B. Becker, F. Somers, P. de Tullio, D. Dewalque, M.-H. Antoine, P. Arkhammar, F.E. Nielsen, J.B. Hansen, J. Damas, J. Delarge, P. Lebrun and B. Pirotte.
New 3-alkylamino-7-chloro-4H-1,2,4-benzothiadiazine 1,1-dioxides related to BPDZ 73 as putative K channel openers : design, synthesis and pharmacological evaluation.
Comm. : Drug discovery strategies : Hit and lead finding. Société Royale de Chimie, Mont-Saint-Guibert, December 1, 2000, Abstr. 52.

- P. de Tullio, S. Boverie, F. Somers, J. Ouedraogo, M.-H. Antoine, B. Becker, F.E. Nielsen, P. Arkhammar, J.B. Hansen, J. Delarge, P. Lebrun and B. Pirotte.
Reparation and biological evaluation of new 7-substituted 3-isopropylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides, analogues of the K channel opener BPDZ 73.
Comm. : Drug discovery strategies : Hit and lead finding. Société Royale de Chimie, Mont-Saint-Guibert, December 1, 2000, Abstr. 53.

- S. Sebille, B. Becker, M.-H. Antoine, S. Boverie, P. Arkhammar, J.B. Hansen, P. Lebrun and B. Pirotte.
Synthèse et évaluation pharmacologique de composés structuralement apparentés au cromakalim en tant qu'activateurs des canaux KATP.
Comm. : 8è Journée Jeunes Chercheurs, Paris, France, Janvier 26, 2001. Abstr. P42.

- F. Somers, P. de Tullio, S. Boverie, Q.-A. Nguyen, B. Becker, M.-H. Antoine, B. Pirotte and P. Lebrun.
Les 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxydes diversement substitués par un atome de chlore en tant qu'activateurs des canaux KATP.
Comm. : 8è Journée Jeunes Chercheurs, Paris, France, Janvier 26, 2001. Abstr. P44.

- S. Boverie, P. de Tullio, B. Becker, M.-H. Antoine, D. Dewalque, J. Damas, P. Lebrun and B. Pirotte.
Preparation and biological properties of chemically diverse 3-substituted 7-chloro-4H-1,2,4-benzothiadiazine 1,1-dioxides structurally related to the potassium channel opener diazoxide.
Comm. : 10th Forum of Pharmaceutical Sciences, Montreal, Canada, May 24-27, 2001. Abstr. 38.

- S. Sebille, B. Becker, S. Boverie, M.-H. Antoine, P. Lebrun and B. Pirotte.
Synthesis and pharmacological evaluation of 4,6-disubstituted-2,2-dimethylchromans structurally related to the KATP channel opener cromakalim.
Comm. : 10th Forum of Pharmaceutical Sciences, Montreal, Canada, May 24-27, 2001. Abstr. 42.

- P. de Tullio, R. Ouedraogo, S. Boverie, M.-H. Antoine, B. Becker, J. Delarge, P. Lebrun and B. Pirotte.
Les 3-alkylamino-2-méthyl-2H-benzo- et pyridothiadiazine dioxydes en tant qu'activateurs potentiels des canaux potassiques sensibles à l'ATP.
Comm. : 15èmes Journées Franco-Belges de Pharmacochimie, Namur, Mai 31-Juin 1, 2001. Abstr. B7.

- S. Boverie, P. de Tullio, B. Becker, M.-H. Antoine, D. Dewalque, J. Damas, P. Lebrun and B. Pirotte.
Propriétés biologiques des 7-chloro-4H-1,2,4-benzothiadiazine 1,1-dioxydes diversement substitués en position 3 : nouveaux analogues du diazoxide.
Comm. : 15èmes Journées Franco-Belges de Pharmacochimie, Namur, Mai 31-Juin 1, 2001. Abstr. B3.

- S. Sebille, B. Becker, M.-H. Antoine, P. Lebrun and B. Pirotte.
Conception, synthèse et évaluation pharmacologique de composés structuralement apparentés au cromakalim en tant qu'activateurs des canaux KATP.
Comm. : 15èmes Journées Franco-Belges de Pharmacochimie, Namur, Mai 31-Juin 1, 2001. Abstr. B26.

- B. Becker, M.-H. Antoine, Q.-A. Nguyen, B. Rigo, K. E. Cosgrove, P.D. Barnes, M. J. Dunne, B. Pirotte and P. Lebrun.
ATP-sensitive K+channels activated by a quinolinone derivative.
Comm.: 2001 Annual Meeting of the EASD Islet Study Group, Glasgow, UK, September 13-15, 2001, Abstr. P14.

- S. Boverie, B. Becker, F. Somers, Q.-A. Nguyen, R. Ouedraogo, M.-H. Antoine, P. Lebrun, B. Pirotte, P. de Tullio.
3-R/S (hydroxyalkylamino)-4H-1,2,4-benzothiadiazine 1,1-dioxides as potential K+ATP channel activators: influence of stereochemistry on biological activity and tissue selectivity.
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 17, 2001.
- S. Sebille, B. Becker, M.-H. Antoine, P. Lebrun and B. Pirotte.
Effects on rat pancreatic β-cells and rat aorta rings of 4,6-disubstituted 2,2 dimethylchromans structurally related to the potassium channel opener cromakalim.
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 17, 2001.

- N. Cirelli, N. Tshupa, N. Lambot, J. Delogne-Desnoeck, A. M. Vanbellighen, G. Graff, P. Lebrun, and S. Meuris.
The albumin-stimulated hCG and hPL secretion from placental explants is potentiated by cobalt.
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 17, 2001.

- P. de Tullio, R. Ouedraogo, B. Becker, S. Boverie, F. Somers, M.-H. Antoine, B. Pirotte and P. Lebrun.
2-N-alkylation of 3-alkylamino-substituted 2H-benzo-and 2-H-pyridothiadiazine 1,1-dioxides: from K+ATP channel openers to Ca++channel blockers?
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 17, 2001.

- P. de Tullio, B. Becker, R. Ouedraogo, S. Boverie, F. Somers, B. Pirotte, P. Lebrun and M.-H. Antoine.
2-alkyl-3-alkylamino-2H-benzo-and pyridothiadiazine 1,1-dioxides : Ca++channel blockers rather than K+ATP channel openers ?
Comm.: Workshop on the Endocrine Pancreas, "Groupe de Contact FNRS", Brussels, December 8, 2001, Abstr. P 9.

- S. Sebille, B. Becker, M.-H. Antoine, S. Boverie, P. de Tullio, P. Lebrun et B. Pirotte.
Synthèse et évaluation pharmacologique in vitro sur cellules B pancréatiques de rats, aortes de rats et utérus de rates de molécules apparentées au cromakalim en tant qu'activateurs des canaux KATP.
Comm.: 9ème Journée des Jeunes Chercheurs, Paris, France, Janvier 25, 2002.

- S. Sebille, B. Becker, M.-H. Antoine, S. Boverie, P. de Tullio, P. Lebrun and B. Pirotte.
Pharmacological evaluation of cromakalim analogues: towards the discovery of new inhibitors of insulin secretion from rat pancreatic β-cells.
Comm.: Société belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULG, Liège, March 2, 2002. Fund. Clin. Pharmacol. 16, 3, 2002, Abstr: 6

- S. Boverie, B. Becker, S. Sebille, M.-H. Antoine, B. Pirotte, P. Lebrun, and P. de Tullio.
Development of 4H-1,2,4-benzothiadiazine 1,1-dioxides as putative tocolytic agents: pharmacological evaluation on different smooth muscle preparations.
Comm.: Société belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULG, Liège, March 2, 2002. Fund. Clin. Pharmacol. 16, 3, 2002, Abstr: 7

- S. Sebille, B. Becker, P. de Tullio, S. Boverie, M.-H. Antoine, P. Lebrun et B. Pirotte.
Synthèse et évaluation pharmacologique in vitro de nouveaux analogues du cromakalim en tant qu'activateurs potentiels des canaux KATP.
Comm.: 2ème Congrès Combiné de Pharmacochimie, Bagnoles de l'Orne, France, Mai 29-31, 2002, Abstr : A 8.

and S. Meuris.
Cobalt potentiates the albumin-stimulated HCG and HPL secretion from term placenta explants
Comm.: 7th European Symposium on Calcium Binding Proteins in Normal and Transformed Cells, Bruxelles, juin 12-15, 2002.

Pirotte
6,7-disubstituted 3-alkylamino-4H-1,2,4-benzothiadiazine 1,1-dioxides: new potent ATP-sensitive potassium channel openers.
Comm.: XVIIth International Symposium on Medicinal Chemistry, Barcelona, Spain, September 1-5, 2002.
Drugs Fut. : 27, suppl. A, P.206, 2002.

Pirotte
Synthesis and pharmacological evaluation of cromakalim analogues as potassium channel activators
Comm.: Drug Hunting: new targets, new tools, new drugs, Bruxelles, novembre 15, 2002, Abstr.:35.

- S. Sebille, S. Boverie, P. de Tullio, M.-H. Antoine, P. Lebrun et B. Pirotte
Nouveaux analogues du cromakalim en tant qu'agents pharmacologiques potentiels de la classe des activateurs des canaux KATP
Comm.: 10ème Journée Jeunes Chercheurs, Paris, France, janvier 31, 2003

- S. Sebille, B. Becker, S. Boverie, P. de Tullio, M.-H. Antoine, P. Lebrun and B. Pirotte
3,4-Dihydro-2,2-dimethylchromans structurally related to the KATP channel opener cromakalin: design synthesis, effect on insulin release and vascular tone

Comm.: 11th Forum of Pharmaceutical Sciences, Spa, May 8-9, 2003,
Abstr.: P58

- S. Sebille, B. Becker, P. de Tullio, S. Boverie, M.-H. Antoine, B. Pirotte
et P. Lebrun
Evaluation pharmacologique et étude du mécanisme d'action de molécules structuralement apparentées au cromakalim en tant qu'activateurs des canaux KATP
Comm.:Journées Franco-Belges de Pharmacochimie, Bruxelles, mai 22-23, 2003, Abstr.: B25

- P. Lebrun, M.-H. Antoine, M. Dabrowski, J. Bondo Hansen, B. Pirotte and P. de Tullio
Towards tissue-selective ATP-sensitive K+ channel openers
Comm. : 3rd FEPS Congress, Nice, France, June 28- July 2, 2003,
Abstr. : P23-03

- N. Lambot, S. Meuris, J. Delogne-Desnoeck, A.-M. Vanbellinghen, and P. Lebrun
Albumin stimulates HCG and HPL releases from human term placenta explants
Comm. : 3rd FEPS Congress, Nice, France, June 28-July 2, 2003, Abstr. :P19-04

- N. Lambot, P. Lebrun, G. Graff and J. Delogne-Desnoeck
Calcium and colloidal dependent albumin secretory effects on hCG and hPL releases from human term placenta explants
Comm. : FEBS Meeting, Brussels, July 3-8, 2003, Abstr. :PS01-0978

- S. Sebille, S. Boverie, B. Becker, M.-H. Antoine, P. de Tullio, P. Lebrun and B. Pirotte
Effects of cromakalim analogues on rat pancreatic B-cells, rat aorta rings and rat uterus. Study of their mechanism of action as potassium channel activators.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULG, Liège, November 22, 2003.

- S. Sebille, P. de Tullio, M.-H. Antoine, S. Boverie, P. Lebrun and B. Pirotte
New analogues of the potassium channel opener cromakalim: effects on rat pancreatic B-cells and rat aorta rings.
Comm. : 12th Forum of Pharmaceutical Sciences, Blankenberge, May 6-7, 2004.

- S. Boverie, M.-H. Antoine, P. de Tullio, S. Sebille, D. Dewalque, J. Damas, P. Lebrun and B. Pirotte
Synthèse de nouveaux analogues benzothiadiaziniques en tant qu'activateurs potentiels des canaux KATP et leur évaluation pharmacologique in vitro sur cellules B pancréatiques, aorte et utérus de rats.
Comm. : 18èmes Journées Franco-Belges de Pharmacochimie, Luxembourg, juin 3-4, 2004.

- S. Sebille, P. de Tullio, M.-H. Antoine, S. Boverie, P. Lebrun and B. Pirotte
Nouveaux activateurs des canaux KATP analogues du cromakalim : synthèse et évaluation pharmacologique in vitro sur cellules B pancréatiques et aortes de rats.
Comm. : 18èmes Journées Franco-Belges de Pharmacochimie, Luxembourg, juin 3-4, 2004.

- N. Lambot, P. Lebrun, C. Delporte, A. Sener, G. Graff, J. Delogne-Desnoeck,
A. M. Vanbellinghen and S. Meuris
Metabolic pathways involved in albumin stimulated hPL and hCG releases from human term placenta.
Comm. : Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, Gent, May 8, 2004.

- S. Boverie, P. de Tullio, S. Sebille, D. Dewalque, J.Damas, P. Lebrun and B. Pirotte
Relaxant effects on the rat uterine smooth muscle of putative K+ATP channel openers.
Comm. : 4th Congress of the Federation of the European Pharmacological Societies, Porto, Portugal, July 14-17, 2004.
Fund. Clin. Pharmacol. : 18, suppl. 1, 2004, P01.01

- S. Sebille, P. de Tullio, M.-H. Antoine, S. Boverie, B. Pirotte and P. Lebrun
New analogues of the potassium channel opener cromakalim: effets on rat pancreatic B-cells and rat aorta rings.
Comm. : 4th Congress of the Federation of the European Pharmacological Societies, Porto, Portugal, July 14-17, 2004.
Fund. Clin. Pharmacol. : 18, suppl. 1, 2004, P15.27

- P. Lebrun
ATP- sensitive K+ channels : an overview

Comm. : 4th Congress of the Federation of the European Pharmacological Societies, Porto, Portugal, July 14-17, 2004.
Fund. Clin. Pharmacol. : 18, suppl. 1, 2004, S16.1

- N. Lambot, P. Lebrun, C. Delporte, A. Sener, G. Graff, J. Delogne-Desnoeck,
A. M. Vanbellinghen and S. Meuris
The inositol phosphates cAMP, cGMP, and arachinodic acid metabolic pathways are not involved in the hormonal secretory response to albumin from human term placenta.
Comm. : 37th Annual Meeting Society for the Study of Reproduction, Vancouver, Canada, August 1-4, 2004 Abstr. : 242

- P. de Tullio, L. Dupont, S. Boverie, B. Becker, M.-H. Antoine, S. Sebille, P. Lebrun and B. Pirotte
Improvement of the pharmacophoric model for an agonistic activity of arylthiadiazine dioxides on pancreatic KATP channels using the CoMSIA approach.
Comm.: The 18th International Symposium on Medicinal Chemistry, Copenhagen-Malmö (Denmark-Sweden), August 15-19, 2004
Drugs of the future 29 (Suppl. 1), Abstr. P193

- N. Lambot, P. Lybaert, A. Boom, J. Delogne-Desnoeck, A.-M. Vanbellinghen, G. Graff, P. Lebrun and S. Meuris
Transmembrane movements of albumin in the human term placenta.
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques. ULB Brussels, April 23, 2005

- X. Florence, P. de Tullio, S. Sebille, M.-H. Antoine, P. Lebrun and B. Pirotte
Synthèse et évaluation biologique d'analogues 6,7-disubstitués du (R) –3-[2-(1-hydroxypropylamino)]-4H-1,2,4-benzothiadiazine 1,1-dioxyde en tant qu'activateurs potentiels des canaux potassiques sensibles à l'ATP et leurs analogues biotinylés en tant qu'outils pharmacologiques.
Comm. : 19ème Journées Franco-Belges de Pharmacochimie, Liège, Mai 26-27, 2005, Abstr. PS10

- S. Sebille, X. Florence, M.-H. Antoine, S. Boverie, P. de Tullio, P. Lebrun and B. Pirotte
Vers la découverte d'activateurs sélectifs du canal KATP pancréatique, analogues du cromakalim : synthèse et évaluation pharmacologique du R/S-4-(4-chlorophénylaminothiocarbonylamino)-3,4-dihydro-2,2-diméthyl-6-fluoro-2H-1-benzopyrane.
Comm. : 19ème Journées Franco-Belges de Pharmacochimie, Liège, Mai 26-27, 2005, Abstr. PS26

- N. Lambot, P. Lybaert, A. Boom, J. Delogne-Desnoeck, A.-M. Vanbellinghen, G. Graff, P. Lebrun and S. Meuris
Albumin is internalized according to an apical recycling pathway into the human syncytiotrophoblast.
Comm. : The Endocrine Society's 87th Annual Meeting, San Diego,USA,
June 4-7, 2005
Abst. : P2-34

- P. de Tullio, P. Chiap, P. Francotte, J-Cl. Van Heugen, X. Florence, M. Frédérich, F. Gillotin, P. Kremers, P. Lebrun and B. Pirotte
Application de la LC-SPE-RMN et de la LC-MS à la détermination structurale des métabolites d'activateurs des canaux KATP de la classe des 3-alkylamino-4H-1,2,4-arylthiadiazine 1,1-dioxydes
Comm. : 20émes Journées Franco-Belges de Pharmacochimie, Lille, France, Juin 1-2, 2006
Abstr. C7

- X. Florence, P. de Tullio, P. Lebrun and B. Pirotte
Nouveaux développements dans le domaine des activateurs des canaux potassiques ATP-dépendants en série benzopyrane
Comm. : 20émes Journées Franco-Belges de Pharmacochimie, Lille, France, Juin 1-2, 2006
Abstr. B24

- P. Lebrun
Physiologie, pharmacologie des canaux potassiques ATP-dépendants et développement d'activateurs originaux des canaux K-ATP pancréatiques
Conférence : 20èmes Journées Franco-Belges de Pharmacochimie, Lille, France, Juin 1-2, 2006

- P. de Tullio, P. Chiap, P. Francotte, F. Gillotin, J.-Cl. Van Heugen, M. Frédérich, P. Kremers, P. Lebrun and B. Pirotte
Combined use of LC-SPE-NMR and LC-MS for the metabolites characterization of ATP-sensitive potassium channel openers belonging to 3-alkylamino-4H-1,2,4-arylthiadiazine 1,1-dioxides
Comm.: XIXth International Symposium on Medicinal Chemistry,Istanbul, Turkey, August 29-September 2, 2006
Drugs of the Future 31 Suppl. A, P208, 2006
- P. Lybaert, S. Meuris, AM Vanbellinghen and P. Lebrun

Immunohistochemical evidence for KIR6.2/SUR2 expression in epididymal epithelial cells of various mammalian species
Comm.: Tenth International Symposium on Spematology, Madrid, Spain, September 17-22, 2006

- P. Lybaert, S. Meuris, AM Vanbellinghen and P. Lebrun
Evidence for KATP channels expression in the epididymis from various mammalian species
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 18, 2006

- X. Florence, P. de Tullio, P. Lebrun, and B. Pirotte
New developments in benzopyran derivatives as pancreatic □-cell KATP channel openers
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 18, 2006

-P. de Tullio, P. Chiap, P. Francotte, J-C. Van Heugen, X. Florence, M. Frederich, F. Gillotin, P. Kremers, P. Lebrun and B. Pirotte
In vitro metabolisation study of several 3-alkylamino- 4H-1,2,4-benzothiadiazine 1,1-dioxides as ATP-sensitive potassium channel openers: combined use of LC-Q-TOF and LC-SPE-NMR
Comm.: Société Belge de Physiologie et de Pharmacologie Fondamentales et Cliniques, ULB, Brussels, November 18, 2006

- P. Lybaert, S. Meuris, AM Vanbellinghen and P. Lebrun
Evidence for KATP channels expression in epithelial cells of various mammalian epididymides
Comm.: Fourth International Workshop on epididymis, Châtel Guyon, France, December 4-7, 2006

- X. Florence, P. de Tullio, P. Lebrun, and B. Pirotte
Synthèse et evaluation biologique de nouveaux activateurs des canaux potassiques ATP-dépendants en série benzopyrane
Comm.: 21èmes Journées Franco-Belges de Pharmacochimie, FUNDP, Namur, Mai 10-11, 2007

- P. Lebrun
Pharmacology of ATP-sensitive potassium channels and insulin release
Conference: 1st International Brussels Pancreatic Islet Symposium, Brussels, July 26-29, 2007

- X. Florence, P. de Tullio, P. Lebrun, and B. Pirotte
Cromakalim analogues as pancreatic □-cell-selective KATP channel openers
Comm.: 1st International Brussels Pancreatic Islet Symposium, Brussels, July 26-29, 2007